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From the Editor's Desk



Visitors to Western Australia for the WA Orchid Spectacular in late September 2008 must include at least one sojourn into the native bushland during their stay. The flora of the region is quite simply stunning, unique and colourful – and then there are the orchids! (Even an hour or two at Wireless Hill Reserve will allow you to see literally hundreds of orchids in bloom.) This south-western corner is the home to countless endemic terrestrial species that occur nowhere else in the world. For glossy texture and intensity of colour it is hard to go past the two different Enamel Orchids from the genus *Elythranthera*. These are closely related to *Caladenia*, which in itself has recently been dissected into a number of splinter genera. In this issue, local orchid identity Tony Watkinson provides us with a colour pictorial of these almost unreal flowers. Tony has also been one of the main promoters for the successful Western Australian Orchid Spectaculars. The next one is just a few months away, and it's not too late to make your travel arrangements. We attended the last one in September 2005 and it was a most memorable and enjoyable event.

One of our Victorian correspondents, Alan Hope, has spent quite a bit of time overseas studying orchids in collections and in the wild. This time Alan discusses his trip to the Mt. Mulu National Park in Borneo and his encounter with an uncommon *Coelogyne* species. On a subsequent visit to the impressive Singapore Botanic Gardens "Cool House" Alan also photographed the extremely horticulturally desirable *Robiquetia cerina*, a species from the Philippines.

Jim Cootes is our resident expert on Philippine orchids. The genus *Flickingeria* is a group of botanical species related to *Dendrobium*. They are seldom encountered in cultivation as the flowers are generally very short-lived and that they are very hard to track down! Certainly a group of plants for the serious species orchid enthusiast. Jim has also co-authored (with Wally Suarez) some new combinations for the genus *Mycaranthes*, which was previously included within *Eria*. These showy and easily grown orchids deserve to be in wider cultivation.

South American orchids have not been ignored, and we have a couple of pieces on seldom seen species from Peru. Rebecca Repasky and Eric Christenson illustrate examples from the genera *Pachyphyllum* and *Scaphyglottis*.

With winter now upon us, it is important to ensure that (for those with glasshouses) all heaters are functioning properly and in safe working order. Electrics and water can be a very dangerous combination if not managed correctly. If in doubt, have your equipment checked by a licensed electrician. For orchids grown in shadehouses in frost prone areas, many suggest an application of Envy over the foliage to reduce or even prevent the burning effects of brief cold periods below freezing.

David P. Banks
Australian Orchid Review
davidbanks@veritel.com.au

OUR COVER



Mycaranthes vanoverberghii
from the Philippines was
previously included with
the genus *Eria*.
Plant and photo: David Banks
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Elythranthera:

Showy Enamel Orchids of the Western Australian Southwest

Text and photos by Tony Watkinson

These attractive orchids were first collected by Baron Von Huegel (or Hugel), a German aristocrat with a penchant for collecting rare and unusual horticultural specimens. Von Huegel took himself on a world tour after apparently being jilted by his fiancée. He spent only seven weeks in Western Australia during 1833-1834, but still managed to collect a large number of plants that were new to science at Perth and in the area around Albany on the south coast, one of which was *Elythranthera brunonis*.

After his return to Europe, Von Huegel's collection found its way to Austria where it was published as part of Stephan Endlicher's *Enumeratio Plantarum* in 1837. First named as *Caladenia brunonis* by Endlicher in honour of Robert Brown, the botanist with the 1802 Flinders Expedition, it was later renamed *Glossodia brunonis* and finally reclassified to *Elythranthera brunonis* by Alex George in 1963.

Plants of the genus *Elythranthera* are endemic to southwest Western Australia, where they are quite common and widespread in open forests and swamps. Fortunately they are not endangered, despite much land clearing in their range, which is from Kalbarri in the North, to East of Esperance on the south coast. The name *Elythranthera* is derived from the Greek *elutron* and *anthera* and refers to the column wing, which acts as a concave hood that extends over and beyond the anther. *Elythranthera* are distantly related to the *Glossodia* orchids of eastern

Australia. The two recognised species of *Elythranthera* are easily spotted in the wild by the glossy sheen on the sepals and petals, which appear to be made of porcelain, hence the common name of 'Enamel Orchids'. This unusual feature causes *Elythranthera* to be very attractive when seen in the bush, but creates difficulties when trying to photograph them with a flash camera.

These terrestrial orchids have tubers below ground that become dormant after flowering. The tubers survive beneath the surface, safe from predators, wildfires and desiccation by the sun during the heat of summer. Their growth begins again with the winter rains and flowering commences during winter and into spring. It seems that all Western Australian terrestrials in their natural state germinate and grow in symbiosis with a mycorrhizal fungus that infects their roots and tubers. The orchid gains much from this cooperation in the way of nutrients and water, as their protocorms have almost no resources of their





own to fall back on. This collaboration can last the life of the orchid and is one of the reasons why *Elythranthera* have proven so difficult to grow in cultivation.

To have even moderate success, cultivating them usually requires planting them in soil from their original location, as that should naturally contain the mycorrhizal fungi. I have heard many reports of Western Australia's native terrestrials slowly dying in captivity, but they still keep popping up year after year in the wild. I understand that the mycorrhizal fungus also goes dormant during the summer, and has to re-establish itself at the start of each winter growing period. Perhaps when they are kept in a pot in cultivation, the mycorrhiza fails to renew its growth after a few years, and this leads to the demise of the orchid. This problem may be overcome by the addition of bush soil in the pots from time to time, but this idea is yet to be tested. In my limited personal experience over only two or three years, growing both *Elythranthera* species (rescued almost literally from in front of the bulldozer), they may be cultivated if the following points are kept in mind. Pot them in soil from the bush where they have been growing and allow the pots to dry out with the summer so they can go dormant. Do not water them during the whole of the summer. Pots can be stacked on top of each other if you need some extra space, as their requirements are nil during this time. As I live in the same natural environment as they do, I have no need to water them at all. *Elythranthera* will start their new growth with the winter rains and that needs no input from me. The solitary leaf can be quite variable, but is usually around 10cm long, and appears at the base of the stem. The leaf, stem and margins of the petals and sepals are covered in small, dark hairs. *Elythranthera brunonis*, the Purple Enamel Orchid, is usually taller, to 30cm than *Elythranthera emarginata*, 12-15cm but has a much smaller flower.

Elythranthera brunonis can have up to three flowers per stem that are around 2-3cm across. *Elythranthera emarginata*, the Pink Enamel Orchid, has flowers up to 5cm across, which tend have a mottling effect on the flowers, and often have more flowers per stem than *Elythranthera brunonis*. Even though *Elythranthera brunonis* are purple and *Elythranthera emarginata* are pink, albino (white flowered) specimens of both species have been recorded, as well as a natural hybrid between the species, named as *Elythranthera x intermedia*).

As mentioned before, the front of the sepals and petals, as well as the labellum, have an enamel-like finish. The backs, however, are quite different; the background colour on the rear of the flowers is much lighter, with dark pink to purple spots all over. Although both species have



much the same range, *Elythranthera emarginata* can usually be found in wetter areas, and also tend to form clumps or colonies. *Elythranthera brunonis* on the other hand, can be found in many different soil types and solitary plants are often found.

Elythranthera brunonis usually blooms earlier than *Elythranthera emarginata*, but their flowering periods overlap to a large extent. Both species have dark lobes, or calli, on either side of the labellum, around 10mm long, which are very dark to black at the apex and lighter (white, yellow or purple) toward the base. The flower colour is not necessarily the best way to distinguish between the two species. Sometimes pink can look purplish, and purple, pinkish, and flower size is not always a reliable indicator; this can lead to much confusion in identifying them.

The most distinctive differences between the two species are in the structure of the labellum itself, which bends in both species but in idiosyncratic ways. The labellum of *Elythranthera emarginata* is wider than that of *Elythranthera brunonis*, and is white with pink markings. It bends down, then back, then forward, giving is



Above: *Elythranthera brunonis* (floral detail)

Left: *Elythranthera brunonis* (back of flower)



Above: *Elythranthera emarginata* (in situ)

Right: *Elythranthera emarginata*, the Pink Enamel Orchid

Below: E06 *Elythranthera emarginata* (in situ)







an 'S' shape when viewed from the side. *Elythranthera brunonis* has a much narrower labellum, which is white and projects forward between the calli, then up and back.

We orchid aficionados, just like Baron Von Huegel, are prone to madly desire the orchid that is rare and beautiful. Should you feel drawn to possess one (or more) of these wonderful gifts of nature, take a deep breath. To the best of my knowledge, none are available anywhere on the planet, not even here in Western Australia where they are both protected species. They have not been seriously propagated to any extent, and one would have to think that here lays a task that is begging to be done. These individualistic Enamel Orchids enrich and enhance the already unique flora of Australia's southwest, where their survival for the foreseeable future seems happily assured. I guess the only place in the world to see them is right here, so come on down to Western Australia.

Once seen, never forgotten. ■

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Above: *Elythranthera emarginata* (back of flower)

Left: *Elythranthera emarginata* (floral detail)

Coelogyne muluensis

text & photos by Alan Hope

The island of Borneo is noted for its flora and fauna, particularly for the large range of orchid species still to be found in the wild. In practical terms the most accessible areas for finding wild orchids are the National Parks, one such being Mt. Mulu National Park, located in northern Sarawak close to Brunei. While Mt. Mulu at 2,376 metres isn't Sarawak's highest mountain, the range of geographic features and microclimates in its vicinity is probably second only to that found at Mt. Kinabulu, located in Sabah to the north. This diversity around Mt. Mulu has given rise to at least nine different forest and vegetation types containing an estimated 3,500 plant species, 2,000 of them being flowering plants.

On this our second trip to the region, our small group decided to explore further areas of the Park, including around the 'Pinnacles,' a spectacular group of sharp limestone outcrops at about the 1,200m level of nearby Mt. Api. Over the years a small camp known as 'Camp 5' has been established on the Melinau River as the staging point for those trekkers and tourists wishing to make the climb to the Pinnacles. The only drawback to the plan was that to reach Camp 5 from the Mt. Mulu Park Headquarters one needs to backpack their provisions and gear 9 kilometres along a rough, muddy track, an activity that can only be described as 'hard yakka'.

In terms of searching for orchids one of the areas of interest was a lowland forest type known as Kerangas forest, located on ancient terraces created from extensive geographic uplifts. These terraces, comprising very poor sandy and leached soils, are raised to some 250m above the Melinau River with the closest Kerangas forest being a 3km hike from the Camp.

Two of us together with our guide headed off mid-afternoon, later than had been planned. After crossing a small bridge over the Melinau River we began an undulating climb through patches of lowland forest until we reached the terraced Kerangas forest area. The vegetation comprised spindly trees up to 5m tall, low scrub, small bushes and undergrowth, and the occasional larger tree. The light was now poor and the surroundings were somewhat eerie; bushes caught on clothes and there were many biting insects, including large aggressive ants.

Some of the larger trees had epiphytes



Mt. Mulu National Park ("Camp 5")

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Amber Sands 'Harlequin'

Cymbidiums by Gordon Giles

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Coelogyne muluensis – plant with buds and flowers



Coelogyne muluensis – plant in bud



Coelogyne muluensis – flower in detail

growing on their trunks and higher branches but generally the area appeared to be barren. It was only on moving our search into a thicker patch of spindly trees that our guide spotted some white flowers through the gloom. The plant, its ribbed leaves long and slender, was growing as an epiphyte on the lower part of a spindly tree. The inflorescence comprised two buds and two open flowers and while clearly a *Coelogyne* was a taxon unknown to us. The flowers, somewhat chewed at the edges, were about 6cm across, the petals and sepals being creamy-white, while the dorsal sepal hooded the flower. The spatula-shaped labellum had a creamy-white outer edging, a strong burnt-orange centre and yellow keels at its base. We found a few other plants of the same *Coelogyne* in the immediate vicinity also growing as epiphytes; one of these with a raceme of five buds about to open was growing on a slightly larger tree. Overall, this was a most attractive orchid and well worth the effort of visiting the area, although the late afternoon gloom made photography difficult.

Prior to returning to Australia our group met with Mr. Tony Lamb, one of the two Coordinators of the excellent four-volume series, *Orchids of Borneo*. From the photographs Tony identified the orchid we had found as being *Coelogyne muluensis*, and noted that it was an infrequently seen and photographed species. A later check of Dudley Clayton's *The Genus Coelogyne – A Synopsis* (Natural History Publications, Borneo, 2002) confirmed this species as being *Coelogyne muluensis*, described by J. J. Wood in 1984. Its distribution and habitat were given as Borneo (Sarawak), epiphytic on slender trees and saplings in tropical heath and alluvial forests, and mixed dipterocarp forest with a Kerangas element, typical of the terraced area we had explored. I am unsure if this species is in cultivation in Australia, but would prove popular if plants became available. ■

Alan Hope

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Some *Flickingeria* species from the Philippines

by Jim Cootes

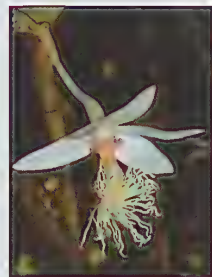
I guess that we all have our own particular reasons for growing certain plants and/or species. For me I have always been fascinated by the huge variation found within the growth habits of species orchids, and particularly those from the members found within the Dendrobiinae.

Flickingeria species have an interesting growth habit in which each year's new growth appears from the base of the pre-

ceding year's pseudobulb. The plants grow upwards and are usually neat and tidy, and the plants only produce roots from the base of the plant. There are also pendulous growing species, some of which have very thin stems.

The main drawback with these beautiful plants is that their flowers are short-lived, but all the species will flower several times a year. Another factor that may

Right: *Flickingeria scopia* (Photo: Wally Suarez)

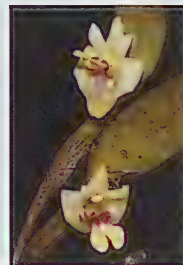


not endear them to grower's, is that in many of the species, the blooms appear (often un-noticed) on the underside of the leaf!

In the Philippines there are at least nine species, the majority of which are endemic or found in no other country. They are usually found from sea level up to about 1,000 metres elevation. Normally they grow as epiphytes but I have also seen plants growing on rocks as lithophytes.

The genus is divided into four Sections of related species. Three of these Sections

Left: *Flickingeria interjecta* (Photo: Ravan Schneider)



were created by the late Dr. Gunnar Seidenfaden when he did his revision of the Thai species of the genus in 1980. Wally Suarez and I created the section *Parietiformae* in the *Philippine Orchid Review* published in August 2007. We created this section for a group of species which have a shortly bi-lobed mid lobe to the labellum and a wall-like callus just in front of the column. There are at least two species in the Philippines, which are in this section – one as yet is undescribed.

A Selection of Species:

Section *Flickingeria* Seidenfaden

Flickingeria scopia is a most attractive species with a beautiful fimbriate labellum. The plant is an upright grower and it usually makes a very spectacular show when it blooms. It can flower several times throughout the year and I believe the flow-



Flickingeria chrysographata (Photo: David Banks)

ering is initiated by a sudden drop in temperature and/or air pressure. This is a species from the lowlands and it is endemic to the Philippines.

Section Bilobulatae Seidenfaden

Flickingeria chrysographata is also endemic to the Philippines and is a very neat grower. The plants are not big and a large specimen will occupy a 100 mm pot easily.

Flickingeria interjecta resembles the previous species in its growth habit but the flowers are very different. Normally the labellum of this species is yellow but I have recently been sent images of a plant found in northern Mindoro with a beautiful orange labellum. This is also a new locality record for the species.



Left: *Flickingeria interjecta* (Photo: Ravan Schneider)

Flickingeria juncatiloba was only named in 1998 from plants collected on the island of Leyte in the Visayan Sea. This plant has also been found recently on the east coast of the island of Luzon. The plant is a semi-pendulous grower and the stems are very thin. Endemic.

Flickingeria praetermissa was recently named by Wally Suarez and I for a species that had been incorrectly identified as *F. xantholeuca*, a species which does not occur in the Philippines. *F. praetermissa* was originally going to be named as *F. forcipatum* by Professor Oakes Ames but for some reason this name was never pub-



Right: *Flickingeria interjecta* (Photo: Ravan Schneider)

lished. The epithet of *forcipatum* was then used by J.J. Smith for a Javanese species, so a new name was required. The epithet *praetermissa* refers to the fact that this species was forgotten for many years. *F. praetermissa* differs from *F. xantholeuca* in the obtuse apex and the non-erose frontal margins of the side lobes; a median keel that does not reach to the base of the labellum; and the non-aristate leaves are also diagnostic. This species is a pendulous grower. Endemic.

Section Parietiformae Suarez and Cootes

Flickingeria purpureostelidia is a miniature growing species that is only known from the east coast of Luzon. I believe that this is the first time this species has ever been illustrated. Endemic.

Section Plicatiles Seidenfaden

Flickingeria fimbriata is very widely distributed throughout south-east Asia and is a most attractive species. Normally the flowers have a yellow labellum but I have recently seen pictures of a plant from the island of Negros, in the Visayan Sea, with a white lip. This is also a new locality record for this species.

Cultivation:

The majority of the species are from low

to mid elevations, and to be grown successfully in Sydney, need a winter minimum of 10 to 15 degrees Celsius. Plants do best in plastic or terracotta pots with a mixture of small bark 70%, perlite 20% and pebbles 10% that the roots can attach to. The pendulous growing species are best placed, tightly, on a mount of either tree-fern fibre or natural cork bark. High humidity, good air circulation and a minimum of 50% shading are necessary to have these plants growing to their full potential. Regular applications of both organic and inorganic fertilisers should have these species growing and flowering to perfection.

Even though the flickingerias may not be everybody's "cup of tea" I find them easy to grow and when I am lucky I can



Flickingeria juncatiloba (Photo: Hans Fessel)



even catch them in flower. If you want something different in your species collection, try a *Flickingeria* or two. All the above species are worth the effort to track down. They will certainly reward your care with a lovely floral display in their season.

Left: *Flickingeria praetermissa* (Photo: Ravan Schneider)

Below: *Flickingeria purpureostelidia* (Photo: Jim Cootes)



Right:
Flickingeria fimbriata
from Negros. (Photo:
Ravan Schneider)

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Right: *Flickingeria fimbriata* (Photo: Ravan Schneider)

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AOR 037

Pachyphyllum gracillimum

Rebecca Repasky and
Eric Christenson
illustrate a rarely seen
miniature epiphyte

Pachyphyllum gracillimum
(Repasky 317) collected in the
Wayqecha Biological Research
Station. (photo: R. Repasky)



The genus *Pachyphyllum* comprises approximately 35 species found from Mexico to Bolivia. They are all miniature species that exhibit pseudomonopodial growth. That is to say, the plants produce typical sympodial growth from the base but each stem is indeterminate in growth like a true monopodial orchid such as a *Vanda*. Short few-flowered inflorescences are produced in the leaf axils, usually with several flowering at a time. The relative length of the peduncles to the leaves, whether they are shorter or longer than the leaves, is an important species-level character. The tiny flowers are in shades of white with or without tinges of green or pale yellow.

Pachyphyllum is a very natural genus that has a rather uncomplicated taxonomic history. German taxonomist Fritz Kraenzlin split off seven species as the genus *Orchidotypus* based on having the sepals mostly fused into a floral tube but this approach has been universally rejected. One of the more curious things about *Pachyphyllum* is that no one has ever monographed the genus. The plants are commonly collected for herbarium specimens and their distinctive growth habit assures that the specimens are usually correctly filed to genus. Given the manageable size of the genus, it would make an ideal subject for a graduate thesis.

Pachyphyllum gracillimum is vegetatively very similar to the more widespread *P. hispidulum* (syn.: *P. muscoides*) but differs in two features. First, the flowers of *P. hispidulum* are cupped and the sepals and petals do not reflex as in *P. gracillimum*. Second, the leaf margins of *P. gracillimum* are essentially smooth unlike the conspicuously ciliolate margins found in *P. hispidulum* (indeed, the basis for the epithet *hispidulum*).

The plant illustrated here is vouchered by herbarium material

in Lima (Repasky 317, USM) as part of ongoing studies in the Department of Cusco. *Pachyphyllum gracillimum* remains endemic to southern Peru but may be expected in Bolivia. From very limited herbarium material *P. gracillimum* has been recorded from an elevational range of 2600-3700m.

Acknowledgements:

We thank the Gordon and Betty Moore Foundation and the Beneficia Foundation for their financial support. We also thank the Amazon Conservation Association (ACA) and the Asociación para la Conservación de la Cuenca Amazonica (ACCA) for their logistical support in Peru and specifically at the Wayqechas Cloud Forest Research Station. We are grateful to the Instituto Nacional de Recursos Naturales (INRENA). And especially to Rosario Acero, Karina Ramirez, and Antonio Morisaki, for their belief in this project and for providing permits for research and collecting of voucher specimens in the Departments of Cusco and Madre de Dios.

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Pachyphyllum gracillimum
 (photo: R. Repasky)



Pachyphyllum gracillimum
(photo: R. Repasky)



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ACR 042



Mycaranthes vanovergerghii
showing plant and flowering habit
(plant and photos: David Banks)

New Combinations in the Subtribe Eriinae

(Orchidaceae: Epidendroideae: Podochileae)

by Jim Cootes and Wally Suarez

Summary:

The following new combinations are made: *Mycaranthes anceps*, *M. candoonensis*, *M. clemensiae*, *M. davaensis*, *M. gigantea*, *M. lamellata*, *M. longibracteata*, *M. mindanaensis*, and *M. vanoverberghii*.

Recent studies in the Eriinae (Pridgeon *et al.*, 2005, Ng Yan Peng *et al.*, 2005) have revealed that *Mycaranthes* can stand, in its own right as a genus. Dr. Carl Blume originally established this genus of epiphytic orchids in 1825, in *Bijdragen tot de Flora van Nederlandsch Indie*. There are about 30 species in the genus and they are found throughout south-east Asia.

The following new combinations are made for the Philippine members of this genus, which were previous included within *Eria*. This is also to facilitate their inclusion in the publication of Mr Suarez's book on Philippine orchid species.

Jour. Sci. 4 (1909) 219, 237.

Mycaranthes candoonensis (Ames) J.E. Cootes & W. Suarez, comb. nov.

Basionym: *Eria candoonensis* Ames in Orchidaceae 7 (1922) 101.

Mycaranthes clemensiae (Leavitt) J.E. Cootes & W. Suarez, comb. nov.

Basionym: *Eria clemensiae* Leavitt in Phil. Jour. Sci. 4 (1909) 220, 238.

Mycaranthes davaensis (Ames) J.E.

Ng Yan Peng & P.J. Cribb (2005) *Orchid Review* 113 (1265): 272.

Pridgeon A., *et al.*, (2005) *Genera Orchidacearum* Volume 4 Epidendroideae (Part One) – Oxford University Press.

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Wally Suarez (Philippines)

Email: ayi_boy12@yahoo.com



Mycaranthes gigantea (Photo: Dr. Nelson Geraldino, Philippines)



Mycaranthes gigantea (Photo: Dr. Nelson Geraldino, Philippines)



Mycaranthes candoonensis (Photo: Jim Cootes)

Members of this distinctive genus can be recognised by the plant habit which has no pseudobulbs, but thickened leafy stems; the numerous, usually, terminal inflorescences that bear many small, widely opening flowers; the labellum is three lobed and has a mealy ridge or callus in its centre; and can also be characterised by the long column foot, with the labellum attached on the same plane or a bit past the lower margins of the lateral sepals.

Type species: *Mycaranthes lobata* Bl.

Etymology: from the ancient Greek *mykari* = bat, *anthos* = flower. (Referring to the labellum that in profile resembles a bat.)

Mycaranthes anceps (Leavitt) J.E. Cootes & W. Suarez, comb. nov.

Basionym: *Eria anceps* Leavitt in Phil.

Cootes & W. Suarez, comb. nov.

Basionym: *Eria davaensis* Ames in Elmer, Leaf. Philipp. Bot. 5 (1912) 1575.

Mycaranthes gigantea (Ames) J.E. Cootes & W. Suarez, comb. nov.

Basionym: *Eria gigantea* Ames in Orchidaceae 2 (1908) 192.

Mycaranthes lamellata (Ames) J.E. Cootes & W. Suarez, comb. nov.

Basionym: *Eria lamellata* Ames in Elmer, Leaf. Philipp. Bot. 5 (1912) 1576.

Mycaranthes longibracteata (Leavitt) J.E. Cootes & W. Suarez, comb. nov.

Basionym: *Eria longibracteata* Leavitt in Phil. Jour. Sci. 4 (1909) 219, 238.

Mycaranthes mindanaensis (Ames) J.E. Cootes & W. Suarez, comb. nov.

Basionym: *Eria mindanaensis* Ames in Elmer, Leaf. Philipp. Bot. 5 (1912) 1577.

Mycaranthes vanoverberghii (Ames) J.E. Cootes, D.P. Banks & W. Suarez, comb. nov.

Basionym: *Eria vanoverberghii* Ames in Phil. Jour. Sci. 7 (1912) 20.

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At the Australian Orchid Foundation Award of Honour (from left to right) Geoff Stocker, Bill Lavarack and Bruce Gray.

Bruce Gray honoured by the Australian Orchid Foundation

by Dr P S (Bill) Lavarack

On 23 February a group of orchid lovers met at Stockers Nursery at Malanda to see Bruce Gray presented with an Australian Orchid Foundation Award of Honour. Len Lawler was the MC and I was honoured to make the presentation to a long-term friend. Below is the text of the speech that I made.

Forty one years ago I was a young PhD student at Queensland University, starting off on a study of Australian ground orchids. One day my supervisor Trevor Clifford, struck up a conversation with the passenger sitting next to him on a Brisbane-Cairns flight. This happened to be the Rev Ron Collins and the topic soon came to orchids. As a result I found myself later that year on the Tableland staying with the Collins. Just about the first thing Ron did when I arrived was to introduce me to Bruce Gray. So Bruce is a mate of over 40 years standing.

I think it was that year – 1967 – that Ron, Bruce and I travelled in a rented 4WD to Coen where we met up with the young Mal Brown who showed us around the McIlwraith Range which in those days was very much his patch. I think this was Bruce's first visit to the Peninsula, as well as mine, and the orchids we saw were quite mind blowing. Vandas, Phalaenopsis – all sorts of species rarely seen down south.

Bruce's training was originally as an electrician, but in the mid 1970s he obtained a position as a technical officer with CSIRO Forest Research in Atherton, partly as a result of a reference that I wrote. If ever there was a case of a square peg slotting into a square hole this was it. He gained this job due to his bush skills and knowledge of the Far Northern Region of Queensland, experience he had accumulated through his interest in the plants,

wildlife and the forests of north Queensland. In gaining this knowledge he made himself into a very competent botanist with an excellent knowledge of orchids – his favourite group, indeed his passion. Bruce is living proof that a piece of paper from a university is not what makes a botanist. At CSIRO Bruce formed a great team with Bernie Hyland and from this came some very important botanical research into rainforests including keys to rainforest trees and other plants.

His position at CSIRO involved the field collection of rain forest tree specimens and this gave him the opportunity to get to places visited by few others and resulted in the discovery of many new species of orchids and other plants. Twenty two new orchids were discovered by Bruce and subsequently described by him as species new to science, along with two new species of tassel ferns. Thus

Bruce is one of the few botanists who have had the privilege of both the discovery in the field and the scientific publication of new species. Many of these species were described jointly with Dave Jones with whom Bruce formed a very profitable scientific partnership.

His extensive knowledge of North Queensland and its plants made him the first contact point for many visiting botanists (and zoologists) from the southern states and from overseas. He has guided countless visitors to the specimens they required or to the locations for their photographs and his contribution in this field is impossible to quantify. This detailed knowledge of local ecological communities stretches from Mackay north to the islands of Torres Strait, covering islands, coastal communities and mountains. These same skills and the contacts he made, led Bruce to become part of several South American botanical expeditions to places such as Ecuador where he assisted in making collections of many new species of orchids and other epiphytes.

As part of his general plant collecting work in north Queensland, Bruce made the

first collections of many new species over and above the 22 orchids mentioned previously. At least nine species of Australian rainforest plants have been named after him including one orchid – *Vrydagzynea grayi*. His trips to South America resulted in at least three orchids from that region being named after him. These are *Epidendrum grayi*, *Maxillaria grayi* and *Polycynis grayi*.

At this point I should make mention of Bruce's skills as an illustrator. He is a first rate photographer and has photographed many orchids and other plants not photographed by anyone else. He has made himself into a fine botanical illustrator producing excellent black and white line drawings, many of which have been published.

He has co-authored three books – two with me and one on climbing plants with Dave Jones. These all feature Bruce's excellent photographs.

Today Bruce Gray is one of Australia's best known species and native orchid growers. He is also a regular speaker at orchid conferences, where his slide programs demonstrate his skills as an orchid photographer.



Bill Lavarack and Bruce Gray at the Australian Orchid Foundation Award of Honour presentation.

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Above: *Robiquetia cerina* - Specimen plant

Left: Singapore National Orchid Garden

Below: Orchid Cool House

Robiquetia cerina

and the

Singapore Gardens Cool House

text and photos by Alan Hope



When in Singapore I always try to visit the Botanic Gardens to see if any new species orchids are in bloom or just to admire old favourites. Up until a few years ago the orchid species collection comprised mainly warm growers from the Asian region, together with a lesser number of South American and other regional species. While species orchids can be found throughout the gardens, many species have been consolidated in a designated outdoor species section, where many of the plants have been naturalised on existing trees and shrubs. While the construction of a Mist House enclosure in the 1990s enabled a greater range of species to be grown and displayed they were still predominantly warm growers.

It was therefore of interest when the Singapore Botanic Gardens Management announced that a 'Cool House' would be built within the National Orchid Garden, to house and display cooler growing orchids and companion plants. While this project took some time to fund and construct, the Cool House was opened to the public a few years ago and is now a popular attraction at the Gardens. It is an enclosed rectangular structure of around 25 metres in length, with a generous central aisle and 4 metre high rocky ledges on both sides to simulate a mountainous rainforest terrain. Cooling is aided by an effective misting system. A range of cooler growing species orchids and companion plants, including mosses, grasses and shrubs provide a highly authentic display.

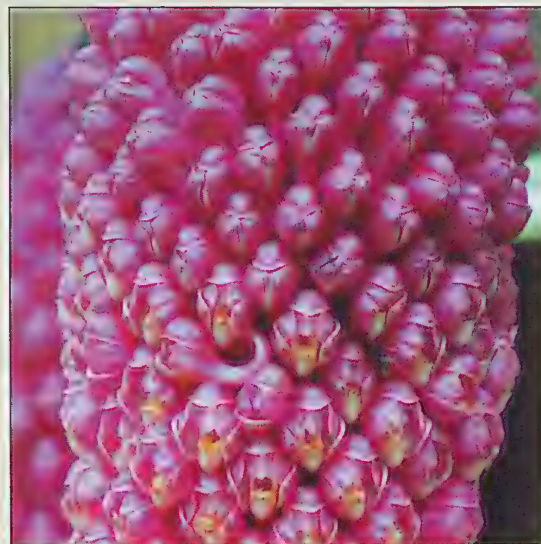


Left: *Robiquetia cerina* –
Plant in bloom

Top right: *Robiquetia cerina* –
Inflorescence

Centre: *Robiquetia cerina* –
Note spur at base of flower

Bottom: *Robiquetia cerina* –
with ants on flowers



On a recent visit to the Cool House (late October 2007), a number of Asian species including bulbophyllums, dendrochilums and dendrobiums were in flower, including an excellent flowering of *Amesiella monticola* growing on one of the rock ledges at roof level.

While looking for other flowering orchids I noticed a specimen plant with two pendulous inflorescences, each bearing a compressed cluster of deep pink to purplish coloured flowers and buds around 10mm in size; each flower carried a small spur. The large fleshy leaves, each up to 20cm long and 3-4cm wide, were a grey-blue in colour, reminiscent of some South American species, while the flowering habit and clustered blooms were similar to those of some bulbophyllums from Borneo. I took some photos to help identify this marvellous plant when I returned home.

My enquiries were unsuccessful until by chance I noticed a close-up photo of a cluster of orchid flowers in 'The Orchids Of The Philippines' (Jim Cootes, Times Editions, 2001, p. 171). This was the same orchid as the Singapore plant, namely *Robiquetia cerina* – a native of the Philippines. The genus, established in 1826 and named after the French chemist, Pierre Robiquet, includes about 40 species that range from India through east and southeast Asia to Australia and the Pacific Islands. The two Australian species, *Robiquetia wassellii* and *Robiquetia gracilistipes*, are both found in northern Queensland.

Robiquetias are monopodial epiphytes that are usually lowland tropical species. Typically they produce multiple small, colourful flowers with a waxy-fleshy nature. *Robiquetia cerina*, one of five species of the genus *Robiquetia* in the Philippines, is found in a number of the Islands, including Luzon, Negros and Mindanao, where it grows on tree trunks at altitudes above 350 metres. The epithet 'cerina' relates to the waxy flowers, estimated to number 200 on the larger inflorescence in this specimen. The flowers, which open sequentially, are probably pollinated by ants or other small insects. *Robiquetia cerina* is a slightly cooler grower than others in the genus, hence its presence in the Singapore Garden's Cool House. Depending on availability, it should be suitable for cultivation under intermediate conditions in southern Australia.

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Scaphyglottis punctulata (Repasky 364) collected in the Wayqecha Biological Research Station. (photograph by R. Repasky)

Orchids of Peru: *Scaphyglottis punctulata*

Rebecca Repasky and Eric Christenson illustrate a distinctive species of *Scaphyglottis*

The genus *Scaphyglottis* comprises about 85 species distributed throughout the Neotropics without a well-defined centre of diversity. With only a few exceptions, the plants are easily recognised because of a nearly unique growth habit. The plants produce new shoots from the base in a manner typical of sympodial orchids. In addition to these shoots, most species also produce secondary superposed growths near the apices of the older growths. Thus the plants form chains of stems over time. These faux keikis produce roots in some species or are without roots in other species.

Most species of *Scaphyglottis* are truly forgettable. They generally have tiny flowers, solitary or in tight clusters, combined with a disproportionate amount of vegetation. There are exceptions such as

the Costa Rican endemic *S. pulchella* (Mora & Atwood, 1993) with large flowers on small plants and the South American *S. stellata* (commonly called by its later synonym *S. amethystina*) with displays of numerous brilliant magenta flowers. When the genus *Hexisea* is included in a broadly defined *Scaphyglottis*, their brilliant orange flowers also make the exception to the rule. The subject of this note, *S. punctulata*, is not particularly showy but the flowers are richly coloured making them distinct from other species.

Scaphyglottis punctulata is widespread from Panama and the West Indies to Bolivia. The species is well-documented and well-illustrated in the Andes for Ecuador (Dodson & Dodson, 1980), Peru (Bennett & Christenson, 1998), and

Bolivia (Dodson & Vásquez, 1989). It has an extremely broad elevational range and has been recorded from 600-2900m.

The plant illustrated here is vouchered by herbarium material in Lima (Repasky 364, USM) as part of ongoing studies in the Department of Cusco.

Despite the richly coloured flowers, *S. punctulata* is only marginal as a horticultural subject. The pseudobulbs are variable but each segment is typically about 8cm long and the plants get rather large after several seasons. The flowers are rather small (sepals +/- 1cm long) and are not produced in any significant quantity.

Acknowledgements:

We thank the Gordon and Betty Moore Foundation and the Beneficia Foundation for their financial support. We also thank



Scaphyglottis punctulata (photograph by R. Repasky)

the Amazon Conservation Association (ACA) and the Asociación para la Conservación de la Cuenca Amazonica (ACCA) for their logistical support in Peru and specifically at the Wayqechas Cloud Forest Research Station. We are grateful to the Instituto Nacional de Recursos Naturales (INRENA). And especially to Rosario Acero, Karina Ramirez, and Antonio Morisaki, for their belief in this project and for providing permits for research and collecting of voucher specimens in the Departments of

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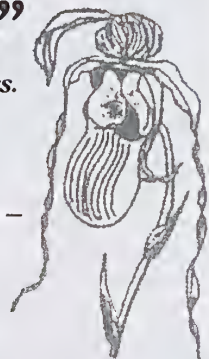
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AOR 039

2008 National Orchid Extravaganza

text Peter Moore – picture Fay Harris



How the year passes so quickly and these shows are on the horizon once more. And the same with our show, which will again be held in the beautiful rural bush setting of Dural at the Dural Recreation Centre Pellitt Lane, Round Corner Dural from Friday 8th to Sunday 10th August, 2008.

The members of the Cymbidium Club of Australia have been working very hard over the quiet months to bring to Sydney the premium in an orchid show from a single genera society.

This year we will once again have the services of the dural region Bush Fire Brigades who will provide the club members and the general public with plenty of refreshments.

The venue this year will be the scene for what we will be the best flowering season in years. With the weather this year in Sydney summer was very favorable towards Cymbidiums particularly and should result in growers having many spikes that could be possible champions.

There will again be many varied ways in

which to display these beautiful flowers. Along with traditional benching, there will be areas that will accommodate the enthusiast who may not be able to bring in a whole plant.

These areas will include classes for blooms only and there will also be a separate section for cut stems. By having these extra classes this enables others to take part that might not be able to.

Traditionally at these shows there are often either displays or benched plants which always look good but we have taken the displays of Cymbidiums one step further by enhancing them with the other options of showing the flowers to their best.

We have been fortunate again this year to have the support of our vendors who have committed yet again to bring their quality plants to our show.

These include, The Orchid Mart, Mini World Orchids, Kimberley Orchids, Shenandoah Orchids, Tinonee Orchids, The Orchid Oasis, Johnsons Orchids, Fong Ping Orchids, Robert Giles Orchids, Nicky's Slipper Orchids and the Orchid Tray Co.

So this would also be a great opportunity for those orchid enthusiasts who would like to purchase their favourite orchids from their favourite grower to come along and see a truly magnificent orchid spectacle.

The show is at the Dural Recreation Centre "Ellerman Park" 25a Kenthurst Road Round Corner Dural (entrance from Pellet Lane, Dural).

Admission is only \$4.00 and there is off street parking.

Opening time will be 9.00am to 5.00pm.

This is also a wheelchair friendly environment and with plenty to see and be refreshed with. We will look forward to seeing you there again this year.

Bendigo Orchid Club weekend

Members of the Bendigo Orchid Club are busy organising plans for the upcoming Victorian Country Orchids Clubs Challenge. This year the Challenge will be held in the Kangaroo Flat Leisure Centre, Browning Street, Kangaroo Flat and once again promises to be a very enjoyable weekend.

Commercial interests will be represented by Johnstons Orchid Nursery, Sims Orchids, Mt Beenak Orchids, Easi Orchids and Castle Creek Orchids all of whom are sure to have plants to tempt the avid orchid enthusiast.

The Victorian Country Orchids Clubs Challenge will be open to the public from 12.00 noon until 5.00pm on Saturday 5 July. A seminar with Murray Shergold will be held at 2.00pm. On Sunday 6 July open from 9.00am for a

'Walk with the Judges' and general annual get together before closing at 3.00pm.

Set up will be on Friday 4 July from 9.00am to 5.00pm followed by a BBQ at Bendigo & District RSL, Havilah Road, Long Gully (two courses at \$12.00 per person) at 6.00pm.

A tour will leave the Leisure Centre at 9.15am on Saturday morning (while judging is in progress) taking in some of the historical sites of Bendigo and a visit to Bendigo Pottery.

Light refreshments will be available during the Challenge.

Accommodation is at a premium so book early. Enquiries can be made to the Secretary, Bendigo Orchid Club, Box 705 Bendigo, Vic 3550.

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Australian Natives

The middle of winter is a fairly quiet time on the native orchid scene. While there aren't many epiphytes in bloom, there are lots of terrestrials in all their extraordinary forms to be seen now. The culture of these is very different to the epiphytic natives and many are impossible to maintain in cultivation, although a few, such as *Pterostylis nutans*, are easy enough to grow if you can provide the care they need. As most of these plants are deciduous over summer they don't have the water demands of other natives such as the *Sarcanthinae*. But then, not everyone is content to look at pots of bare dirt for a couple of months either.

There is much to native orchid culture that means trying to beat the natural climate of where you live. Growers love plants that originate from areas vastly different to where they live. They will choose very showy plants of tropical origin to grow in temperate areas, meaning the need for artificial heat. Even our cool-growing natives may need protection in many inland areas. While the minimum temperatures of the areas they come from seem quite low, the plants grow in protected niches where they get warm sunlight, often

in the morning, and are out of chilling winds. There is usually good tree cover providing protection from frost. You need to be aware of the conditions in your growing area and know what your collection needs to thrive. The challenge is to ensure that they are at their best and not just surviving. This gets more complicated as hybrids of mixed parentage continue to increase. Do they take after the warm or cool growing parents? As hybrid complexity increases they will become more standardised in cultural requirements as has occurred with other groups of orchids such as cattleyas where there are warm and cool growing ones selected for their flowers and not usually the species they originated from, unless you are into species growing and this is a separate interest in itself that can be very rewarding. Watch and study them to learn what they need. This is what orchid culture is about.

Many growers who work don't get to see much of their plants in daylight at this time of year so it is important to get into the bushhouse whenever you can to be sure things are OK. Check for plants that don't get any warm winter sun. Look for the effect of summer growth on nearby trees. The low angle of the sun can mean a small amount of growth on a neighbours

tree can block sunlight. Dealing with that kind of problem may need some diplomacy and creativity. It might just be your own larger plants that cause problems.

This is the time when the spring flowering natives develop their racemes so care is needed to ensure they are not damaged. Watch that they don't get tangled in the leaves and growths of plants. Gently release them if they do. They are best straightened out early so they can develop properly. Be careful as the racemes are very brittle and can snap off. Continue to clean up any dead leaves and pseudobulbs. Remove any ferns and weeds from your pots.

Take care pests don't munch on developing flowers. Snails and slugs seem to enjoy taking a chunk out of the raceme so that it can no longer support the flowers. Aphids suck sap and cause spotting or deformity of flowers. Fortunately most pests are less active in winter, but they will be out and about once the weather warms up and it is really annoying to care for plants all year only to have blooms ruined as they open.

During winter, natives need less water but remember that mounted plants dry out regardless and those blooms that are developing need some water. Water early

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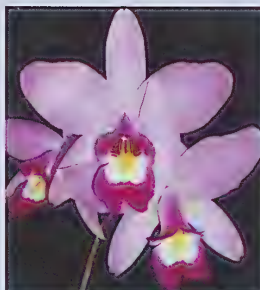
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Spring: First Sunday after October Long Weekend (12 October 2008)

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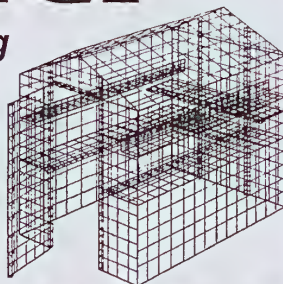
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CULTURAL NOTES

in the day so it is absorbed before the cold of night and any frost can freeze and cause damage or kill plants. Fertiliser can be stopped over winter, let the water flush pots to freshen up the media a bit by washing out excess fertiliser left from summer. If it rains lightly and remains overcast, take the opportunity to get some extra water on plants if they are dry, as it will usually remain warmer overnight.


Get ready for repotting now. You will be glad you did when you start work later and find everything is just where you need it. If you wash pots (and who doesn't recycle when they have only had one healthy owner?) get into the warm winter sun and start scrubbing and soaking. Use gloves and be sure to disinfect with bleach or whatever you have so that you are sure they are really clean. Pots that had sick plants are best destroyed to remove the risk of passing on a virus or other disease.

Stock up on new, clean media in quantities to cope with the numbers of plants you will need to repot when flowering is over. It is very frustrating to spend a day repotting only to get to the last few plants and find that the grade of media they need has run out! Don't reuse potting media from orchids. Save it for ferns and other foliage plants that are kept away from your orchids or use it on the garden as water saving mulch. If an orchid is obviously sick, dispose of the media along with the plant so it won't come into contact with orchids again.

Be wary of changing to an entirely new media as there are many tales of woe out there amongst growers who thought they were onto something good only to find it didn't suit their growing environment and they lost many plants or years of growth. Water quality varies greatly so use anything drastically new with caution. The fertiliser you use can also have an effect.

This is not the time to repot or deflask unless you live in the tropics.

A heated or enclosed house will need to be watched to ensure humidity levels are maintained to suit the plants. Tropical natives are subject to wet and dry seasons, so keeping them dry over winter will both protect them from cold damage as well as imitate their natural environment.

Enjoy what blooms you have and prepare for the busy season ahead. 

Cattleyas

Now is the time to bring your Cattleyas out of the shade house into a covered structure for the winter. Cattleyas prefer a winter night temperature of around ten degrees Celsius. If you grow your cats in a shade house you maybe able to cover the structure with agricultural polythene. Make sure there is ventilation during the day. A small fan helps during the day. See your

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SARCOCHILUS ORCHIDS OF AUSTRALIA Walter T. Upton

Sarcochilus Orchids of Australia is the first book to cover all aspects of species of the genus *Sarcochilus*. Compact plants of great floral beauty with ease of culture, they are mostly cool to cold growing, requiring limited space, and for these reasons are quickly becoming the orchid of the future.

The book gives each individual species a separate entry, with information on its history, synonyms, distribution, habitat, cultivation and hybrids, along with a drawing showing the main parts of the plant and flower, plus a colour plate providing an easy means of identification.

Hybridising, including intergenerics, is dealt with in detail - most registered hybrids being accompanied by a colour plate. Other chapters include pollination, seed raising and cultural information for the home grower.

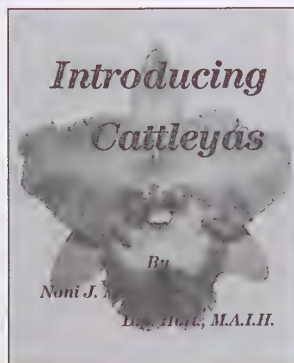
This is Walter T. Upton's third book and is a companion to his very popular and informative *Dendrobium Orchids of Australia*.

119 pages, colour and B&W.

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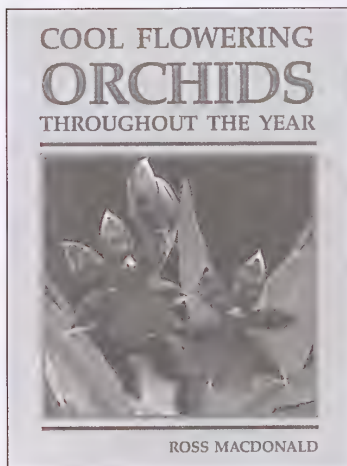
INTRODUCING CATTLEYAS Noni J. Mammatt

Noni Mammatt's fascination with the *Cattleya* Alliance, their most beautiful blooms and extensive range of colour combinations, has prompted Noni to share the results of her own trials in successfully growing and flowering all types of this most beautiful genus under shadehouse conditions in the city of Perth in Western Australia. She hopes that as a result of her writing some new growers, as well as the experienced growers of other orchid genera, may be encouraged to introduce the *Cattleya* Alliance into their collections.



24 pages, B&W.

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COOL FLOWERING ORCHIDS THROUGHOUT THE YEAR by Ross Macdonald

Ross Macdonald is a highly respected orchid grower and photographer from the North Island of New Zealand. This volume is devoted to cool growing orchid genera, which are easy to cultivate in New Zealand and southern Australia. Growers in tropical areas should not be discouraged, as many of these orchids are indeed adaptable and will grow in a range of climates. Andy Easton has written the foreword. Ross has devoted the first few pages of the book to cultural

hints, which are down to earth and give practical information on the basics of orchid cultivation. Basically this is a pictorial book with over 300 full colour photographs, covering a similar number of orchid species and hybrids. The quality of both the photographs and the colour reproduction is impressive. All of the orchids have been captured using available sunlight and there is no flash photography. There is a wide range of orchid genera covered with particular emphasis placed on cymbidiums, dendrobiums, laelias, masdevallias, the *Odontoglossum* alliance and *Paphiopedilum*.

The photographs are arranged in four chapters, referring on their main blooming season. The use of seasons ensures the text is also applicable to growers in the northern hemisphere. This inexpensive book is exceptional value and importantly is written by someone who knows and grows these orchids. I thoroughly recommend this book to orchid growers, as it will be of great value to both novice and experienced enthusiasts.

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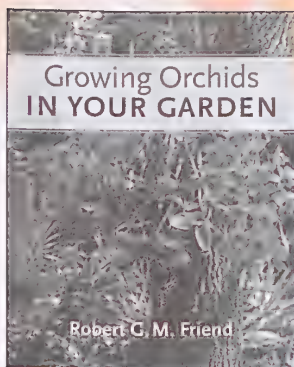
MORE FLOWERING ORCHIDS THROUGHOUT THE YEAR by Ross Macdonald

This is the sister volume to *Cool Flowering Orchids throughout the Year*. It is in the same format and style as the previous book, but also includes some genera that would require artificial heating in cooler climates. This volume covers a further 314 orchid species and hybrids with 344 colour plates. Both texts are highly recommend to all orchid fanciers; particularly newcomers who wish to see an array of delightful flowers that they could grow.

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GROWING ORCHIDS IN YOUR GARDEN by Robert Friend

Just about wherever you live in the world, you can grow orchids in your garden. In this exciting book, Robert Friend shows gardeners how to introduce orchids into the garden by attaching them to trees, fixing them to rocks and walls, or planting them directly into garden beds.

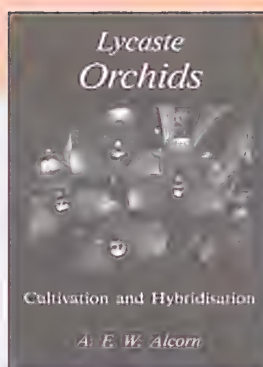
He has traveled the world from Florida to the cool forests of North America, to the tropics of the Pacific Rim and to his origins in Australasia, searching for new ideas and new ways to cultivate these striking plants.

The author details more than 500 orchid choices for every garden situation and supplies practical cultivation information in thorough charts and tables.

Growing Orchids in Your Garden offers an array of dramatic ideas for every reader.

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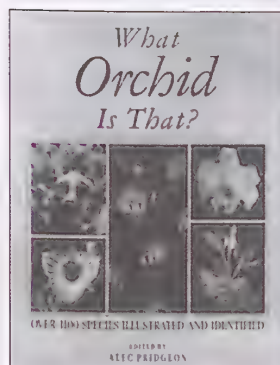
LYCASTE ORCHIDS - Cultivation and Hybridisation A.F.W. Alcorn

Lycaste orchids are easy to grow, and they produce flowers that range from the beautiful to the bizarre. No book previously has provided detailed cultural requirements of the Lycaste, and this book should fill that gap, and encourage new growers to take up the cultivation of this beautiful genus. A section on hybridising contains valuable information on inheritance and genetics that will benefit any hybridiser, not just the grower of Lycastes, as well as helpful hints on how to avoid pitfalls in your hybridising program.

Michael Hallett, a friend of Fred Alcorn for a number of years, co-wrote this book with Fred and has completed it posthumously. He has a background in genetics, research and botany, and a passion for plants, especially orchids.

237 pages, colour and B&W.

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WHAT ORCHID IS THAT? Edited by Alec Pridgeon

The orchid is one of the most passionately cultivated flowers world-wide, and for centuries it has been a symbol for the exotic and mysterious in the human imagination. As the brilliant photographs in this book show, the shapes, hues and textures of many of these extraordinary flowers continue to produce a shock of wonder in the viewer.

This book will delight everyone, from the gardener with a casual interest in orchids, to the confirmed enthusiast. It takes in a wide spectrum of orchid genera and more than 1100 species common in cultivation, presented by an international team of experts.

The first section, by the General Editor, Alec Pridgeon, introduces orchid habitat, distribution, names and classification, hybrids, pollination, how to grow orchids and control pests and diseases, and orchid conservation.

The alphabetical section, "Orchids A-Z", includes descriptions, names and synonyms, geographic distribution, notes on culture, and photographs drawn from collections around the world, showing the best-known species in cultivation.

Whether you are buying, growing or just looking, this is the ultimate guide to orchids.

304 pages, colour.

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GROWING PHALAENOPSIS AT HOME James Neal

This book is essential reading and reference for any person who grows, or is intending to grow, Phalaenopsis.

Jim, in a simple and easily understood style, explains and elaborates on light conditions, watering, temperatures, fertilisers, pests and diseases.

Explanations of the way Phalaenopsis are named and the implications of growing seedlings, illustrate some of the more difficult ideas for the layman to understand.

The colour photography illustrates beautifully the topics under discussion and the orchid names are supplied, where necessary, as a caption.

The illustrations drawn by Jim's son Jamie are pertinent and succinct and make the subject more easily understood.

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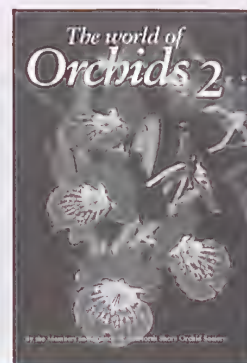
THE WORLD OF ORCHIDS - 2

The World of Orchids - 2 has been written by members and friends of the North Shore Orchid Society about orchids grown in Sydney and its environs, and we are indebted to those people for their time and effort.

It has been produced to cover a large range of genera to help not only the novice, but also the experienced grower in their present fields of interest, and to tempt and encourage them to try other genera.

It should be pointed out that the methods of culture used by the authors are those which they themselves have found successful. Growers should try any changes to their own culture gradually and on a few plants first, as orchids respond differently under different conditions.

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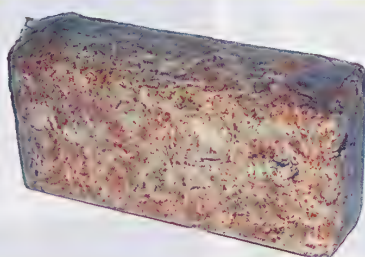
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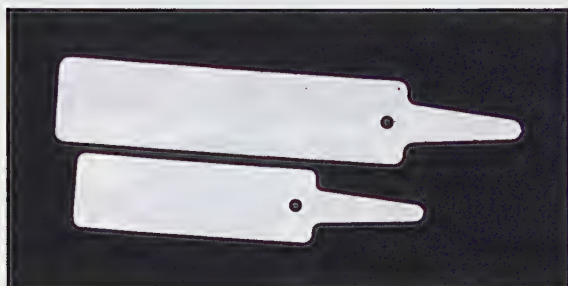
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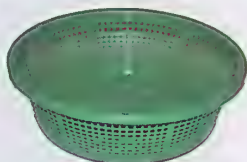


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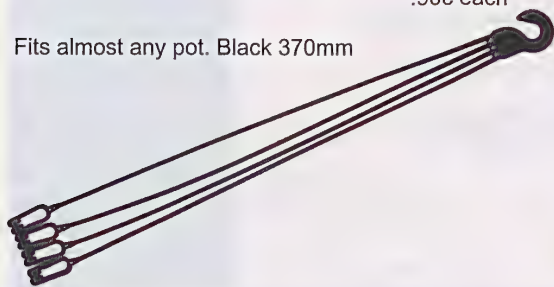
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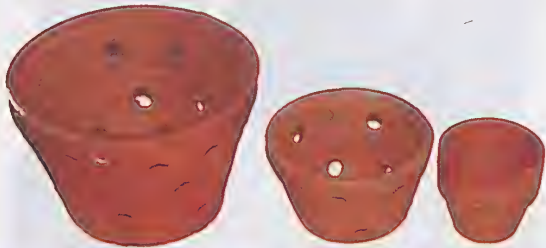


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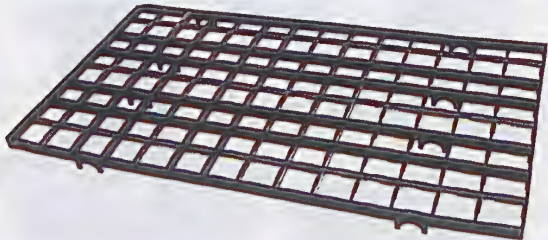
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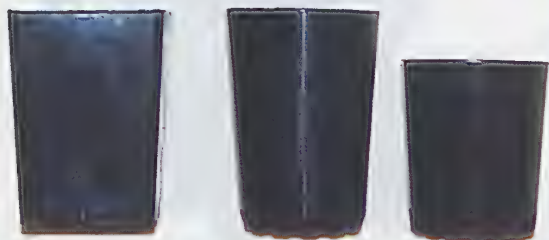
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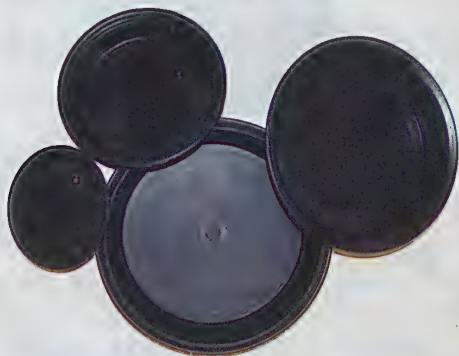


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ORCHID GROWERS ACCESSORIES CATALOGUE 2008

80mm SQUAT POT \$149.00 per 875 or .20c each
100mm SQUAT POT \$89.00 per 450 or .23 each
120mm SQUAT POT \$99.30 per 450 or .30 each
140mm SQUAT POT \$89.90 per 360 or .40 each



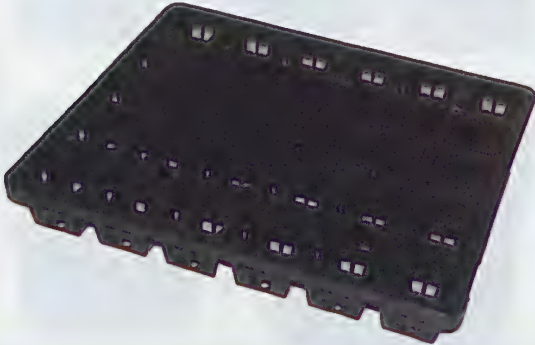
100mm POT TRAY 12 hole.

Will hold 90 to 110mm pots.
\$165.00 per 50 or \$5.00 each



50MM INDIVIDUAL TUBE TRAY

30 hole each numbered \$185.00 per 50 or \$5.00 each



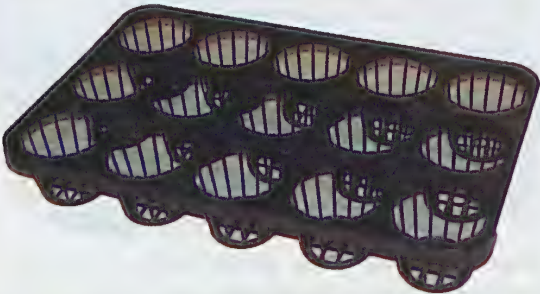
150mm POT TRAY 6 hole.

Will hold 120mm to 160mm pots
\$185.00 per 50 or \$5.00 each



80mm POT TRAY

Will hold 70mm to 80mm pots.
15 holes per tray \$165.00 per 50 or \$5.00 each

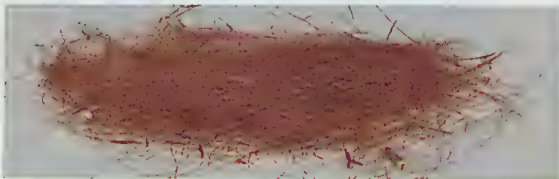


75mm TUBE \$69.00 per 500 or .19c each



Coir fibre for use as a basket liner, for lining Vanda baskets, or in a pot for those orchids that like outstanding drainage. Great for decorative topplings.

Long Strand, Loose coconut fibre \$29.95 per 5kg



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So popular & so versatile, these baskets pots have proven great sellers since introduction to Australia. Can be hung or benched

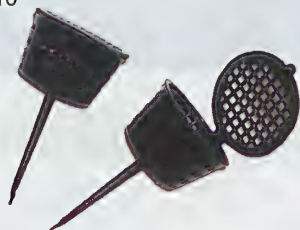
25mm Round Basket Pot \$29.00 per 600 or .07c each
 87mm Round Basket Pot \$66.00 per 200 or .37c each
 100mm Round Basket Pot \$100.00 per 250 or .45c each
 150mm Round Basket Pot \$56.00 per 70 or \$1.00 each
 200mm Round Basket Pot \$50.00 per 50 or \$1.05 each



PLASTIC FERTILISER BASKET

Make fertilising an easy task. Load with slow release organic (or other) fertiliser & each time watering occurs your plant is automatically fed. Time saver!!

\$135.00 per 500
 or \$4.50 per 10



ORGANIC FERTILISER TABLETS, slow release BFA certified, well balanced NPK, these tablets provide a great meal for any growing plant.

\$66.00 per 500 or 10 for \$2.00

Terms and conditions

All pricing includes GST and is ex warehouse. Freight additional at cost.
Wholesale/commercial grower pricing available upon request. All pricing subject to change without notice.

PLANT PROTECTOR

1 litre \$25.00 each
 20 litre \$275.00 each

Australias best antitranspirant. Use to protect plants from extremes of temperature, wind, etc. The orchid growers best friend.

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PLANT PROTECTOR protects from:

- Moisture Loss - by up to 50%
- Insufficient watering
- The damaging affects of heat and UV
- Sea spray and wind burn
- Transplant shock
- The damaging effects of cold and frost

Features

PLANT PROTECTOR can substantially reduce moisture losses by up to 50%, eliminate sun and windburn damage as well as increase frost tolerance by an additional 4 Deg. PLANT PROTECTOR will not impede plant growth or photosynthesis, is non-toxic, pH neutral and will biodegrade in sunlight.

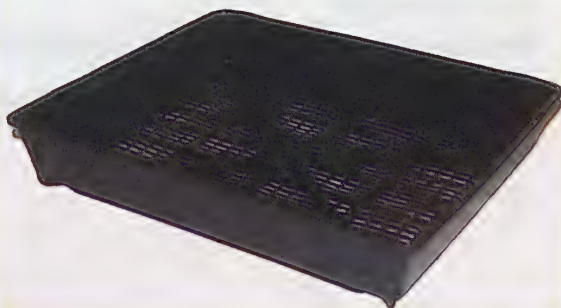
1 Litre

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SEEDLING TRAY BLACK

\$69.00 per 50 or \$1.60 each



80mm EXTRA HEAVY DUTY POT

\$55.00 per 250 or .30c each



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Teak Baskets Pack of 4 sets 100mm, 150mm and 200mm (total 12 pieces).
The best value teak baskets in Australia.

\$30.00 per pack of 4 sets (12 pieces)

\$10.00 per set (3 pieces)

\$6.00 Large basket

\$4.00 Medium basket

\$2.50 Small basket



Virus Testing Kit

Keep your valuable collection virus free with this easy to use DIY kit.
Fast & accurate results from this new resource.
Designed to detect the two most common orchid viruses,
Cymbidium mosaic virus and Odontoglossum ringspot virus.

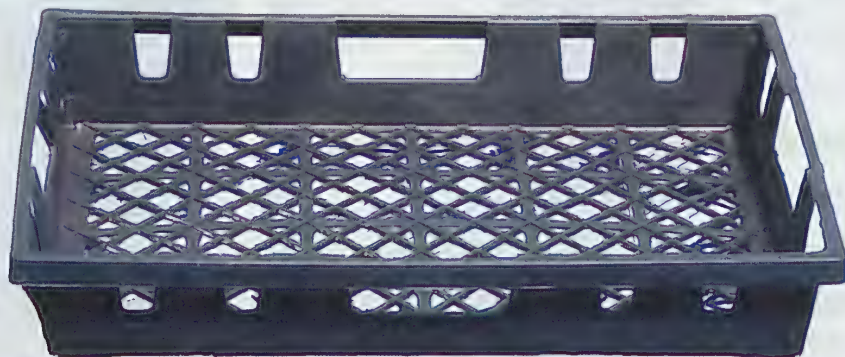
\$10.00 each. Buy 5 & we pay the freight



Large Nursery Tray

Just the thing for so many jobs around the nursery.

\$4.50 each or 20 for \$75.00



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local electrician regarding power points – water problems etc.

If possible hang your catts during winter to have better air flow and light. They seem to do better hanging than resting on benches during winter.

Check all plants for scale insects. If present spray with ECO OIL®, PEST OIL® or ANTISCALE. Two or three applications may be necessary to control these pests. Make sure you spray under the leaves!

Cattleyas need very little fertiliser during the cold winter months. If growing north of Brisbane and plants are in active growth you could fertilise with an organic fertiliser such as GROWTH BLOOD & BONE®.

Keep plants reasonably dry during the winter months. Check compost – if dry – water! 

Cymbidiums


By now most of you will be enjoying your beautiful flowers. In Sydney it looks like it is going to be a great season as long as the bugs don't get the flowers and the weather does not rot the plants!

First of all now is the time to get your flowering plants under cover to help protect those precious blooms. Once under cover stake the spikes so as they do not bend over and break. Place a few snail pellets around flowering plants. Make sure your spikes face north. This will help stop twisting spikes.

Watch your watering. Try to water around the top of the pot and try to keep the buds dry. DO NOT OVER WATER. Keep media just moist. Only water in the mornings on a sunny day. By doing this if buds and flowers get wet, they will dry off before night fall.

A weekly application of a low nitrogen fertiliser will keep the flowers developing. One could use PETERS EXCEL Cal Mag Hi K or PETERS BLOSSOM BOOSTER, ALAN'S MERRI FERT can also be used on flowering plants.

Watch for bud eating loopers. Inspect weekly. For insurance spray with DIPEL®, SUCCESS® MAVRIK® or CONFIDOR®. Watch for two-spotted mites.

Now is the time to prepare your next seasons potting mix. Over the last few years we have found a lot of plants have suffered from an iron deficiency. Add a little iron sulphate to your mix at recommended rates. Check pH while mix is maturing. 

Paphiopedilum

Paphiopedilum hybrids are well into their flowering season. Most of the whites and early greens will be in flower, together with some of the coloured varieties. Many

The Fifth

Orchid Fair at Mingara

28th & 29th June

Saturday 9am to 5pm – Sunday 9am to 3pm

20 plus nurseries from SA, Vic, NSW, Qld including the Atherton Tablelands, will be offering a huge range of ORCHIDS, FERNS, BROMELIADS, BOOKS ACCESSORIES and much more, all under one roof. Aussie natives and hybrids, Cattleyas, Dendrobiums, Phalaenopsis, New Guinea Species and hybrids, Slippers, Species from South America, Africa and Thailand.

**Where: Mingara Recreation Club
Mingara Drive, Tumby Umbi
on the Central Coast**

*No parking problems
Admission Free*

*Bus & Society groups welcome
A large variety of food available*

For more information please contact Phil Spence 0408 994 696,
Ian Slade (02) 4373 1186 or Brian Gerhard (02) 4385 4552 or
Phil Spence at PO Box 3525 Wamberal NSW 2260

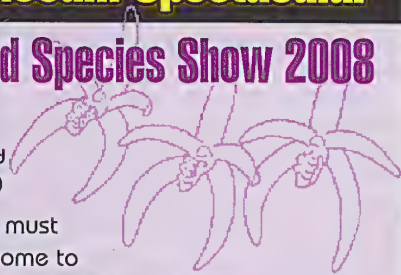
AOR 005

Dendrobium Speciosum Spectacular

and Australian Orchid Species Show 2008

Kempsey, NSW

(Ted & Winsome Walmsley and
ANOS Mid North Coast Group)



Now in its seventh year, this is a must for your orchid calendar. All welcome to exhibit and judging will be by an all ANOS panel.

Monetary prizes and trophies will be awarded in a range of classes including other epiphyte and terrestrial categories.

Interstate entries are encouraged with a prize for the most travelled orchid. In addition there will be a show of Australian hybrids, which will also be judged, at the same location and dates shown below.

Dates: Sat 6th Sept 10am to 4pm
Sun 7th Sept 9am to 4pm
Mon 8th Sept 9am to 4pm

Location: 57 Spooners Avenue, Greenhills via Kempsey.

Details: Electronic copy of brochure with locality map, show schedule and associated events available by e-mailing John Zietsch at jzi01935@bigpond.net.au OR contact Ted Walmsley on (02) 6562 7150 or Ernie Baldwin on (02) 6585 9328.

AOR 072

of the modern hybrids, particularly those with spotted flowers, will not flower until spring. Flower quality depends upon several factors; those under your control at this time of year are watering, feeding, staking and light.

During winter paphiopedilums do not require frequent watering. Whilst the actual frequency will depend upon the weather, the type of housing and the state of the potting mixture, you must resist the temptation to pick up the hose unless the plants are moderately dry. When you do water, water early on a sunny day and water thoroughly. After every third or fourth watering allow the plants to drain for half an hour or so and then water with weak Aquasol (about half strength).

Staking is important if you want to avoid asymmetrical flowers. Try to encourage the stems to grow upright from the start. You will be able to support the growing stem with a loose tie a couple of inches or so below the bud. When the stem is fully grown and the bud about to open, lean the pot forward about fifteen degrees or so and keep it in this position until the flower has been open about a week; this will cause the flowers to "look up" a little.

Adequate light is very important for quality flowers. If at all possible, the amount of shading should be reduced considerably from mid-May until early September. This will result in larger, brighter flowers and longer – yes, longer – stronger stems; the plants will also benefit by continuing their growth cycle, albeit at a slower rate, through the winter months.

Although potting is best left until spring, any plant which is not doing well should be repotted into fresh mixture as soon as it is noticed, no matter what the season. If the roots have rotted away, dip the "bare rooted" plant in Fongarid and stake it firmly.

As a general rule the green-leaved hybrids can be grown quite well in cold

conditions provided they are protected from heavy frost. Those with heated glasshouses do not need more than about six degrees centigrade, although young seedlings will benefit from somewhat warmer conditions. "Maudiae" types are really warm growers and require about fifteen degrees to do well.

Phalaenopsis

By the time you read these notes you should have turned the heat on in your phalie house. Adjust the thermostat to give you a minimum over night temperature of eighteen degrees Celsius. If possible I would like to set the thermostat to around the twenty degree mark, but oh, the cost!

Give plants plenty of light and good air circulation.

Now is the time to stop fertilising your plants and change over to a month of applying magnesium sulphate. Use at 130 grams in 100 litres of water. Give plants four applications, one week apart. Then revert back to a general purpose fertiliser such as PETERS GENERAL PURPOSE or ALAN'S MERRI FERT. While plants are actively growing, fertilise weekly.

Check plants for mealy bug – spray with CONFIDOR® if present. I have not heard of flower burning by using CONFIDOR®.

Keep plants just damp. Every two weeks drench pots to remove undissolved salts.

Check buds for looper grubs. If present, spray growing house with DIPEL®. A slow killer with good results!

Seedling *Phalaenopsis* should be pushed over the winter period. Fertilise weekly with AQUASOL® at 0.75gram per litre of water, CAMPBELLS BLUE at 1.00gram per litre or ALAN'S MERRI FERT at 1.00gram per litre. If you would like an organic fertiliser weekly with GROWTH BLOOD & BONE at 3ml per litre of water.

Vandaceous

Watering:– Cut back on watering during cooler months. Depending on local conditions, a good watering every three days should be sufficient. Water only in mornings. Avoid watering at all on cold or bleak days.

Light:– Strap leaf vandas and ascocendas require 50% shade. If you wish to move narrow leafed vandaceous plants (i.e. terete and semi-terete vandas, Mokaras, Arandas, etc.) from a shade house to full sunlight, then now is a good time to move them.

Fertiliser:– Reduce fertilising to once per fortnight alternating between –

(1) Inorganic low nitrogen – Campbells A, Flowfeed HP8, Aqua K or Phostrogen.

(2) Wuxall, Nitrosol or Fish Emulsion.

Pest Control:– Spray with a fungicide every six weeks e.g. Daconil, Ridomil MZ WP, Mancozeb or Wetttable Sulphur.

If insects or scale are a problem spray with Diazanone, Malathion or Pyrethrum.

Watch for mite damage (i.e. Red Spider, false spider, etc.) and treat with a miticide such as Kelthane or Tediion.

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AOR 126

SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS	CONTACT No.
New South Wales					
5-7 June	Shopping Centre Hours	Winter	Carlingford Orchid Circle Orchid Display	Carlingford Court Shopping Centre Cnr Carlingford & Pennant Hills Rd, Carlingford	02 9873 1277
14-15 June	9.00am-4.00pm	Winter	Blacktown City OS Winter Show	Centro Shopping Centre Cnr Prospect Hwy & Federal Road, Seven Hills	02 9838 9709
19-21 June	7.30am-5.30pm	Winter	Manning River OS Winter Show	Manning Mall Shopping Centre Manning Street, Taree	02 6551 2512
19-20 June 21 June	Shopping Centre Hours 9.00am-3.00pm	Winter	Manly Warringah OS Winter Show	Centro Shopping Centre Jacksons Road, Warriewood	02 9940 0797
19-21 June 22 June	9.00am-5.00pm 9.00am-3.30pm	Winter	Sutherland Shire OS 56th Winter Show	Swanes Nursery 80 Port Hacking Road, Sylvania	02 9521 6209
19-22 June	Shopping Centre Hours	Winter	Orchid Society of NSW St Ives Winter Show	St Ives Shopping Village Mona Vale Road, St Ives	02 9649 2719
24-28 June	Shopping Centre Hours	Winter	Leisure Coast OS Winter Show	Westfield Shopping Centre Figtree	02 4261 6720
25-28 June	Shopping Centre Hours	Winter	Newcastle OS Winter Show	Edgeworth Town Mall Main Road, Edgeworth	0409 710 750
2-5 July	Shopping Centre Hours	Winter	Cumberland Orchid Circle Winter Show	Westfield Shoppingtown North Rocks Road, North Rocks	02 9873 1277
3-5 July	Shopping Centre Hours	Winter	Hawkesbury District OS Winter Show	Westpoint Blacktown Patrick Street, Blacktown	
5 July	9.00am-2.00pm	Winter	Southern Riverina OS Winter Show	CWA Hall Wason Street, Milton	02 4441 3553
5 July 6 July	11.00am-3.00pm 9.00am-3.00pm	Winter	Shoalhaven Orchid Society Winter Show	Berry Showground Cnr Victoria & Albany Streets, Berry	02 44217773
9 July 10-12 July	11.00am-5.00pm 10.00am-5.00pm	Winter	Illawarra District Orchid Club 57th Annual Winter Show	Illawarra Yacht Club 1 Northcliffe Drive, Warrawong	02 4274 4753
10-11 July	Shopping Centre Hours	Winter	Blue Mountains & Penrith Dist Winter Show	Centro Nepean Shopping Centre Station Street, Penrith	02 4731 4167
10-12 July	Shopping Centre Hours	Winter	Eastwood District Orchid Circle Winter Orchid Show	Eastwood Shopping Centre Rowe Street, Eastwood	02 9807 4662
10-13 July	Shopping Centre Hours	Winter	Campbelltown & Districts OS Winter Show	Macarthur Square Shopping Centre Level 3, Gilchrist Drive, Campbelltown	
17-19 July	Shopping Centre Hours	Winter	North Shore OS NSOS Winter Show	Gordon Centre Pacific Highway, Gordon	02 9452 3202
18 July 19 July	9.00am-5.00pm 9.00am-3.00pm	Winter	Eurobodulla Orchid Club Winter Show	CWA Hall Queen Street, Moruya	02 4472 3437
21-26 July	Shopping Centre Hours	Winter	Bankstown OS	Bankstown Centro	9796 1038
23-26 July	Shopping Centre Hours	Winter	Central Coast & Lakes OS Winter Show	Lakeside Shopping Centre The Entrance Road & Denning Street, The Entrance	
23-25 July 26 July	9.00am-5.00pm 9.00am-2.00pm	Winter	Boolaroo OS Winter Show	Wallsend Plaza Shopping Centre Cowper Street, Wallsend	4945 4526
25 July 26 July	10.00am-4.00pm 9.00am-3.00pm	Winter	Batemans Bay Orc & Foliage Winter Show	The Community Centre Museum Place, Batemans Bay	4474 4168
1 August 2 August 3 August	10.00am-6.00pm 9.00am-7.00pm 9.00am-4.00pm	Winter	Manly Warringah OS 'Orchids by the Sea'®	Dee Why RSL Pittwater Road, Dee Why	02 9940 0797
7-10 August	Shopping Centre Hours	Late Winter	Campbelltown & Districts OS Late Winter Show	Narellan Town Centre Camden Valley Way, Narellan	
8-10 August	9.00am-5.00pm	Winter	Cymbidium Club of Australia 2008 National Orc. Extravaganza	Dural Recreation Centre 25a Kenthurst Road, Dural Round Corner	
15-16 August 17 August	9.00am-5.00pm 9.00am-1.00pm	Winter	Sapphire Coast Orchid Club Winter Show	Twyford Hall Market Street, Merimbula	02 6492 0510
16 August	10.00am-4.00pm	Winter	Bellinger Valley OS Annual Orchid Show	Uniting Church Hall Bellingen	
18-23 August	Shopping Centre Hours	Spring	Bankstown OS	Bass Hill Plaza	9796 1038
21-24 August	Shopping Centre Hours	Winter	Western Suburbs OS Winter Show	Ashfield Mall Shopping Centre Ashfield	
26-29 August	Shopping Centre Hours	Spring	Leisure Coast OS Spring Show	Westfield Shopping Centre Warrawong	02 4261 6720
29-30 August 31 August	9.00am-5.00pm 9.00am-12.30pm	Spring	Eurobodalla Orchid Club Early Spring Show	Sports & Leisure Centre Blue Water Drive, Narooma	02 4472 3437
1-5 September	Shopping Centre Hours	Spring	Eastwood & Dist Orchid Circle Spring Show	Eastwood Shopping Centre Rowe Street, Eastwood	02 9807 4662
3-6 September	Shopping Centre Hours	Spring	Cumberland Orchid Circle Spring Show	Winston Hills Mall Caroline Chisholm Drive, Winston Hills	02 9873 1277
3-6 September	Shopping Centre Hours	Spring	Newcastle OS Spring Show	Stockland Jesmond Shopping Centre Blue Gum Road, Jesmond	0409 710 750
4-6 September	7.30am-5.30pm	Spring	Manning River OS Spring Show	Manning Mall Shopping Centre Manning Street, Taree	02 6551 2512
4-5 September 6 September	9.00am-4.00pm 9.00am-3.00pm	Spring	Nambucca Valley OS Spring Orchid Show	Nambucca Heads Entertainment Centre Ridge Street, Nambucca Heads	6567 5191

SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS	CONTACT No.
4-6 September	Shopping Centre Hours	Spring	Hawkesbury District OS Spring Show	Richmond Market Place March Street, Richmond	
4-6 September 7 September	9.00am-5.00pm 9.00am-3.30pm	Spring	Sutherland Shire OS 56th Spring Show	Swanes Nursery 80 Port Hacking Road, Sylvania	02 9521 6209
4-7 September	Shopping Centre Hours	Spring	Campbelltown & Districts OS Spring Show	Macarthur Square Shopping Centre Level 3, Gilchrist Drive, Campbelltown	
6 September 7 September	10.00am-4.00pm 9.00am-4.00pm	Spring	ANOS Mid North Coast Den. Speciosum Spectacular	57 Spooners Avenue Greenhills via Kempsey	02 6562 7150
10-12 September 13 September	9.00am-5.00pm 9.00am-2.00pm	Spring	Boolaroo OS Spring Show	Belmont Citi Centre Belmont	4945 4526
11-12 September 13 September	Shopping Centre Hours to 3.00pm	Spring	Coffs Harbour OS Spring Show	Park Beach Plaza Coffs Harbour	02 6651 4525
11-14 September	Shopping Centre Hours	Spring	Ballina & District OS Spring Show	Ballina Fair Shopping Centre Cnr Fox & Kerr Streets, Ballina	02 6686 5334
12 September 13 September	10.00am-5.00pm 10.00am-4.00pm	Spring	Byron District OS Annual Show	Mullumbimby Ex-Services Club Mullumbimby	02 6680 1600
12 September 13 September	10.00am-4.00pm 9.00am-3.00pm	Spring	Batemans Bay Orc & Foliage Spring Show	The Community Centre Museum Place, Batemans Bay	4474 4168
13 September	10.00am-3.30pm	Spring	Panania-East Hills OS Spring Show	Senior Citizens Hall Anderson Avenue, Panania	02 9771 5474
13 September 14 September	9.00am-4.00pm 9.00am-3.00pm	Spring	A.N.O.S. Warringah Group Spring Show	Forestville Memorial Hall Starkey Street, Forestville	02 9981 2525
13 September 14 September	9.00am-5.00pm 9.00am-4.00pm	Spring	Blue Mountains & Penrith Dist Spring Show	The Melrose Hall Cnr Park St & Great Western Hwy, Emu Plains	02 4731 4167
18-19 September	9.00am-5.00pm	Spring	Sapphire Coast Orchid Club Spring Show	Bega Town Hall Zingel Place, Bega	02 6492 0510
18-20 September	Shopping Centre Hours	Spring	Grafton District OS Grafton Spring Orchid Show	Grafton Shoppingworld Grafton	02 6642 1205
18-19 September 20 September	Shopping Centre Hours to 3.00pm	Spring	City of Lismore OS Spring Show	Lismore Central Shopping Centre Carrington Street, Lismore	02 6621 6386
18-19 September 20 September	Shopping Centre Hours 9.00am-3.00pm	Spring	Manly Warringah OS Spring Show	Centro Shopping Centre Jacksons Road, Warriewood	02 9940 0797
19 September 20 September	11.00am-3.00pm 9.00am-3.00pm	Spring	Shoalhaven Orchid Society Spring Show	Presbyterian Church Hall Kingham Street, Nowra	02 44217773
19 September 20 September 21 September	11.00am-4.00pm 9.00am-4.00pm 9.00am-3.00pm	Spring	Woodburn OS Annual Spring Show	Woodburn Memorial Hall Pacific Highway, Woodburn	02 6645 4168
20-21 September	9.00am-4.00pm	Spring	Blacktown City OS Winter Show	Centro Shopping Centre Cnr Prospect Hwy & Federal Road, Seven Hills	02 9838 9709
20 September 21 September	10.00am-4.00pm 9.00am-4.00pm	Spring	Illawarra District Orchid Club Spring Show	Legacy House 96 Market Street, Wollongong	02 4274 4753
25-26 September 27 September	9.00am-5.00pm 9.00am-3.00pm	Spring	Casino & District OS Spring Show	Presbyterian Hall Hickey Street, Casino	02 6663 3366
27 September 28 September	11.00am-5.00pm 9.00am-4.00pm	Spring	Wagga Wagga OS Annual Spring Show 2008	Glenfield Neighbourhood Centre Tanda Place, Wagga Wagga	0414 951 106
3 October 4-5 October	10.00am-5.00pm 9.00am-5.00pm	Spring	Port Macquarie Orc & Brom Soc Orchids By The Sea	Auditorium, Panthers Port Macquarie Bay Street, Port Macquarie	02 6582 0186
4 October	9.00am-2.00pm	Spring	Southern Riverina OS Winter Show	CWA Hall Wason Street, Milton	02 4441 3553
9-10 October 11 October	8.30am-9.00pm 8.30am-3.00pm	Spring	Tweed District OS Spring Show	Tweed City Shopping Centre Minjungbal Drive, Tweed Heads South	02 6677 9071
10-12 October	9.00am-4.00pm	Spring	Orchid Society of NSW Southern Orchid Spectacular	'Sharkies' Leagues Club Captain Cook Drive, Cronulla	02 9649 2719
11 October 12 October	9.00am-5.00pm 9.00am-4.00pm	Spring	Albury-Wodonga & District OS Inland Championship Orc Show	Mirambeena Centre 19 Martha Mews, Lavington	02 6023 3379
15-18 October	Shopping Centre Hours	Spring	Central Coast & Lakes OS Winter Show	Lakeside Shopping Centre The Entrance Road & Denning Street, The Entrance	
23-25 October	Shopping Centre Hours	Spring	Northern Rivers Orc Species Soc NROSS Spring Show	Lismore Shopping Square Cnr Brewster & Uralba Streets, Lismore	
23-26 October	Shopping Centre Hours	Spring	Western Suburbs OS Spring Show	Rockdale Plaza Shopping Centre Rockdale	
9 November	10.00am-4.00pm	Spring	Hastings River OS 'Festival of Orchids and Jazz'	Bago Vineyards Milligans Road, Wauchope	

Queensland

6-8 June	9.00am-5.00pm		43rd Tropical Queensland Orchid Council Conference	Cairns Showground <i>hosted by NQOS Cairns (70th Anniversary)</i>	07 4053 1334
26-28 June	Shopping Centre Hours	Winter	Mackay & District OS Winter Show	Mount Pleasant/Greenfield Shopping Centre Mackay	07 4943 0150
11-12 July 13 July	9.00am-5.00pm 9.00am-4.00pm	Winter	Townsville OS Winter Show	Townsville Orchid Society Hall Joe Kirwan Park, Charles Street, Kirwan	07 4773 4208
26 July	Starts at 8.30am	Autumn	Proserpine Orchid & Foliage Plant Soc – Local Field Day	Proserpine – Please contact Secretary on	07 4945 1643

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS	CONTACT No.
August	TBA	Winter	Proserpine Orchid & Foliage Plant Soc – Local Field Day	Rotary Garden Expo Proserpine	07 4945 1643
1-2 August	9.00am-5.00pm	Winter	Darling Downs Orchid Assoc	TBA	07 4659 0780
3 August	9.00am-2.00pm		Combined Orchid Show		
2 August	9.00am-5.00pm	Winter	Maroochydhore OS	Millwell Road Community Hall	07 5479 0562
3 August	9.00am-3.00pm		Annual Show	Millwell Road East, Maroochydhore	
22-24 August	9.00am-4.00pm	Spring	Queensland Orchid Society	The Auditorium	07 3800 3213
			Spring Show	Mt Coot-tha Botanic Gardens, Mt Coot-tha	
23 August	9.00am-5.00pm	Spring	ANOS (Qld) Kabi Group	The Lions Hall	07 3289 1953
24 August	8.30am-2.00pm		6th A'sian Native Orchid Show	Lawnton Showgrounds, Gympie Road, Lawnton	
28-30 August	Shopping Centre Hours	Winter	Pine Rivers OS	Deception Bay Shopping Centre	07 5428 7972
			Winter Show	Deception Bay Road, Deception Bay	
29-31 August	9.00am-9.00pm	Winter	The Gold Coast OS	Parklands Showgrounds	07 5525 1668
			Spring Show	Southport, Gold Coast	
30 August	8.30am-4.00pm	Winter	Logan & District OS	Logan Central Community Centre	07 3345 6143
31 August	8.30am-3.00pm		LADOS Annual Winter Show	Cnr Jacaranda Ave & Wembly Road, Woodridge	
30 August	8.30am-4.00pm	Spring	North Brisbane OS	The Auditorium	07 3355 1281
31 August	9.00am-4.00pm		2008 Annual Spring Show	Brisbane Botanic Gardens, Mt Coot-tha	
5 September	8.30am-5.00pm	Spring	Childers & Isis District OS	Childers Cultural Centre	07 4126 7250
6 September	8.30am-2.30pm		Spring Show	Churchill Street, Childers	
5 September	9.00am-5.00pm	Spring	Nambour OS	Nambour Uniting Church Hall	07 5441 7201
6 September	9.00am-2.30pm		Spring Show	37 Coronation Avenue, Nambour	
12 September	8.30am-5.00pm	Autumn	Noosa District Orc & Foliage Soc	RSL Hall	07 5471 7545
13 September	8.30am-4.00pm		NDOFS Show	Cooroy	
13 September	8.30am-4.00pm	Spring	Ipswich OS	State Primary School Hall	07 3201 8307
14 September	8.30am-2.00pm		Autumn Show	Brisbane Road, Bundamba	
13 September	9.00am-4.00pm	Autumn	Beaudesert Dist O & Foliage Soc	Woodhill Community Hall	07 5543 2108
14 September	9.00am-2.00pm		Spring Orchid & Foliage Show	Mt Lindesay Highway, Woodhill	
13 September	9.00am-4.00pm	Spring	West Brisbane OS	Brisbane Botanic Gardens	07 3376 1883
14 September	9.00am-3.30pm		Spring Orchid Spectacular 2008	Mt Coot-tha Road, Toowong	07 3366 6899
18-19 September	8.00am-9.00pm	Spring	Sunshine Coast OS Caloundra	Pelican Waters Shopping Centre	07 5491 5654
20 September	8.00am-3.00pm		Pelican Waters Orchid Show	Pelican Waters	
18-19 September	8.30am-4.30pm	Spring	Maryborough OS	St Pauls Memorial Hall	07 4121 5811
20 September	8.30am-1.00pm		Spring Show	Cnr Adelaide & Ellena Streets, Maryborough	0408 747 786
18-19 September	9.00am-9.00pm	Spring	North Queensland OS Cairns	Raintrees Shopping Centre	07 4053 1334
20 September	9.00am-1.00pm		Spring Show	Manunda	
18-23 September	9.00am-4.30pm	Spring	Native Orc Soc of Toowoomba	Military Museum Complex	07 4635 2274
			Annual Spring Show	Cnr Anzac Ave & O'Quinn Streets, Toowoomba	
19-24 September	8.30am-5.00pm	Spring	Toowoomba OS	St Pauls Lutheran Church Hall	07 4635 3620
			Spring Show	Cnr James & Phillip Streets, Toowoomba	
20 September	8.30am-4.30pm	Spring	Eastern District OS	Wondall Heights State School Assembly Hall	07 3286 4910
21 September	8.30am-3.00pm		Autumn Show	Wondall Road, Manly West	
20-26 September	8.30am-5.00pm	Spring	Darling Downs Orchid Assoc	Centenary Heights State High School	07 4659 0780
27 September	8.30am-12.00noon		Spring Show	Cnr South & Ramsay Streets, Toowoomba	
26 September	9.00am-5.00pm	Spring	Glasshouse Country OS	Community Hall	07 5494 2301
27 September	9.00am-2.30pm		31st Annual Spring Show	Peachester Road, Beerwah	
4 October	8.30am-4.00pm	Spring	Redlands Orchid Society	Donald Simpson Leisure Centre	07 3207 8082
			Spring Charity Show	Bloomfield Street, Cleveland	
9-11 October	Shopping Centre Hours	Spring	The Gold Coast OS	Pines Shopping Centre	07 5525 1668
			Spring Display	Elanora, Gold Coast	
10-11 October	9.00am-5.00pm	Spring	Townsville OS	Townsville Orchid Society Hall	07 4773 4208
12 October	9.00am-4.00pm		Spring Show	Joe Kirwan Park, Charles Street, Kirwan	
11 October	8.30am-5.00pm	Spring	Hervey Bay OS	Great Hall, Hervey Bay High School	
12 October	8.30am-1.00pm		25th Anniversary Extravaganza	Cnr Beach & Old Maryborough Roads, Pialba	
11-12 October	9.00am-5.00pm	Spring	Bribie Island OS	Bribie Island State High School	07 3410 1919
			Spring Orchid Show	First Avenue, Bribie Island	
16-18 October	Shopping Centre Hours	Spring	Pine Rivers OS	Pick-n-Pay Aspley	07 5428 7972
			Spring Show	Gympie Road, Aspley	
25 October	9.00am-5.30pm	Spring	Native Orc Soc of Toowoomba	Walsh's Garden Centre	07 4635 2274
26 October	9.00am-3.00pm		Sarcophilus Festival	881 Ruthven Street, Toowoomba	
30-31 October	Shopping Centre Hours	Spring	Mackay & District OS	Mount Pleasant/Greenfield Shopping Centre	07 4943 0150
1 November			Spring Show	Mackay	

ACT

4 October	10.00am-5.00pm	Spring	Orchid Society of Canberra	St Johns Church	
5 October	12noon-4.00pm		Spring Show	Constitution Avenue, Reid, Canberra	

Victoria

7 June	9.00am-4.30pm	Winter	Melbourne Eastern OS	Burwood Heights Uniting Church Comm Hall	03 9807 6206
8 June	12noon-5.00pm		MEOS Winter Show	Cnr Burwood Highway & Blackburn Road	
9 June	9.00am-4.30pm			Burwood East	
28 June	9.00am-4.00pm	Winter	NE Melbourne OS	Bulleen Heights School	
29 June	10.00am-4.00pm		Winter Show	Pleasant Road, Bulleen	

SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS	CONTACT No.
28-29 June	10.00am-4.00pm	Winter	Geelong Orc & Indoor Plant Club Asia Theme	Christ Church Hall Cnr Moorabool & McKillop Streets, Geelong	03 5250 2503
5 July	12noon-5.00pm	Winter	Bendigo Orchid Club	YMCA Kangaroo Flat Leisure Centre	03 5443 7612
6 July	9.00am-3.00pm		Country Clubs Challenge	Browning Street, Kangaroo Flat	
12-13 July	9.00am-5.00pm	Winter	Maribyrnong OS Winter Show	Maribyrnong Community Centre Randall Street, Maribyrnong	
13 July	9.00am-3.00pm	Winter	Maroondah OS Winter Show	Blackburn High School Hall Williams Road, North Blackburn	03 9801 1628
19 July	10.00am-5.00pm	Winter	Yarra Valley OS	B&T Ferns and Orchids	03 9725 7513
20 July	10.00am-4.00pm		Winter Miracles Show	30 Wiseman Road, Silvan	
19 July	9.00am-5.00pm	Winter	Horsham OS	Senior Citizens Centre	
20 July	9.00am-4.00pm		Winter Show	17 Roberts Avenue, Horsham	
19-20 July	9.00am-4.00pm	Winter	Melbourne Western OS Winter Show	Racecourse Bulban Road, Werribee	
19-20 July	9.00am-4.30pm	Winter	Victorian Orchid Club Winter Show	Red Cross Centre Gate 8 Waterdale Road, Heidelberg	03 9478 9764
26 July	9.00am-4.30pm	Winter	Warrigal OS	St Sava Community Centre	03 9465 3305
27 July	9.30am-4.30pm		Winter Show	212 Diamond Creek Road, Greensborough	
3-9 August	Shopping Centre Hours	Winter	Bayside OC Winter Show	Centro Cranbourne Shopping Centre High Street, Cranbourne	03 5978 6045
15-17 August	9.00am-5.00pm		OSCOV Show	Collectors' Corner/Gardenworld Springvale Road, Keysborough	
29-31 August	Shopping Centre Hours	Winter	Gippsland OC Winter Show	Mid Valley Shopping Plaza Princes Highway, Morwell	03 5122 1034
30-31 August	9.00am-4.30pm	Spring	Victorian Orchid Club Spring Show	Red Cross Centre Gate 8 Waterdale Road, Heidelberg	03 9478 9764
5 September	9.30am-4.00pm	Spring	South Gippsland Orchid Club	Town Hall	
6 September	9.30am-3.30pm		Spring Show	Baillieu Street, Wonthaggi	
6 September	9.00am-5.00pm	Spring	Murray Valley Orchid Club	Scout Hall	
7 September	10.00am-5.00pm		Spring Show	Welsford Street, Shepparton	
6 September	9.30am-4.30pm	Spring	Sale & District Orchid Club	Cathedral Hall	03 5144 3302
7 September	10.00am-4.00pm		Spring Show	Cnr Pearson & Macalister Streets, Sale	
7-13 September	Shopping Centre Hours	Spring	Bayside OC Spring Show	TBA	03 5978 6045
13-14 September	9.00am-5.00pm	Spring	Maribyrnong OS Spring Show	Maribyrnong Community Centre Randall Street, Maribyrnong	
13-14 September	10.00am-4.00pm	Spring	Southern Suburbs OS Spring Show	Senior Citizens Hall Cnr Exley Drive & Nepean Highway, Moorabbin	
13-14 September	Centre Hours	Spring	Cymbid Orc Soc of Victoria Spring Show	Performing Arts Centre Town Hall, Main Street, Ararat	
20-21 September	9.00am-5.00pm 9.00am-4.00pm	Spring	Bairnsdale District Orc Group Spring Show	Lucknow Memorial Hall Lucknow, Omeo Highway, Bairnsdale	03 5155 2487
20-21 September	10.00am-4.00pm 10.00am-3.30pm	Spring	Mid Murray Orchid Club Spring Show	Memorial Hall Nolan Street, Kerang	03 5452 0290
20-21 September	9.00am-4.00pm	Spring	West Gippsland Orchid Club Spring Show	Anglican Church Hall Princes Way, Drouin	03 5625 2170
20-21 September	9.00am-4.00pm 10.00am-4.00pm	Spring	NE Melbourne OS Spring Show	Bulleen Heights School Pleasant Road, Bulleen	
20-21 September	9.00am-4.00pm	Spring	Melbourne Western OS Spring Show	Racecourse Bulban Road, Werribee	
20-21 September	9.00am-5.00pm 10.00am-4.00pm	Spring	St Arnaud OS Spring Show	RSL Hall Raglan Street, St Arnaud	
20-21 September	9.00am-4.30pm 9.00am-4.00pm	Spring	Goulburn Valley OC Spring Show	Senior Citizens Club Rooms Welsford Street, Shepparton	
26-28 September	9.30am-4.30pm 9.30am-4.00pm	Spring	Stawell OS Spring Show	Entertainment Centre Main Street, Stawell	
27-28 September	9.00am-4.00pm	Spring	Berwick OC Spring Show	Senior Citizens Hall 12 High Street, Berwick	
27-28 September	9.00am-5.00pm 9.00am-4.00pm	Spring	Maroondah OS Spring Show	Blackburn High School Hall Williams Road, Blackburn	03 9874 3041
27-28 September	9.00am-4.00pm	Spring	Australasian Native OS Spring Show	Mount Waverley Community Hall 47 Miller Crescent, Mount Waverley	
3-5 October	Shopping Centre Hours	Spring	Gippsland OC Spring Show	Mid Valley Shopping Plaza Princes Highway, Morwell	03 5122 1034
3 October	1.00pm-5.00pm	Spring	Bendigo Orchid Club	YMCA Kangaroo Flat Leisure Centre	03 5446 1026
4 October	10.00am-5.00pm		Annual Spring Show	Browning Street, Kangaroo Flat	
5 October	10.00am-4.00pm				
4-5 October	10.00am-4.00pm	Winter	Geelong Orc & Indoor Plant Club Aussie Back Yard	Christ Church Hall Cnr Moorabool & McKillop Streets, Geelong	03 5250 2503
5-11 October	Shopping Centre Hours	Winter	Bayside OC Winter Show	Parkmore Shopping Centre 317 Cheltenham Road, Keysborough	03 5978 6045
4 October	9.00am-5.00pm	Winter	Horsham & District OS	Town Hall	
5 October	9.00am-4.00pm			Wilson Street, Horsham	

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS	CONTACT No.
4 October	10.00am-4.00pm	Winter	Warrnambool District OS	Warrnambool College Hall	
5 October	10.00am-3.00pm			Grafton Road, Warrnambool	
4 October	9.00am-5.00pm	Spring	Ringwood OS	Maroondah Secondary College, Community Hall	
5 October	9.00am-4.00pm			Brentnall Road, Croydon	
4 October	9.00am-5.00pm	Spring	Melbourne Eastern OS MEOS World of Orchids	Burwood Heights Uniting Church Comm Hall	03 9807 6206
5 October	12noon-4.30pm			Cnr Burwood Highway & Blackburn Road Burwood East	
11 October	9.00am-4.30pm	Spring	Warringal OS Spring Show	St Sava Community Centre	03 9465 3305
12 October	9.30am-4.30pm			212 Diamond Creek Road, Greensborough	
11-12 October	10.30am-4.00pm	Spring	Colac Orchid Club Spring Show	Colac High School Assembly Hall Murray Street, Colac West	
12-18 October	Shopping Centre Hours	Spring	Mornington Peninsular OS Spring Show	Gateway Shopping Complex Cranbourne & Frankston Roads, Langwarrin	
17 October	1.00pm-4.00pm	Spring	Ballarat OS Spring Show	SMB Horticultural Centre	
18-19 October	10.00am-4.00pm			Cnr Gillies & Gregory Streets, Ballarat	
18 October	9.00am-5.00pm	Spring	Yarra Valley OS Spring Show	Seville Public Hall	03 9725 7513
19 October	10.00am-4.00pm			Warburton Highway, Seville	
18 October	9.30am-4.30pm	Spring	Cobden & District OS Spring Show	Cobden Civic Hall	03 5595 1527
19 October	9.30am-4.00pm			Victoria Street, Cobden	
25 October	10.00am-5.00pm	Spring	Ararat Orchid Club Spring Show	Arts Activity Centre, Town Hall	
26 October	10.00am-4.00pm			Main Street, Ararat	
1-2 November	9.00am-5.00pm	Spring	Mornington Peninsular OS	Brotherhood of St Lawrence High Street, Frankston	
1-3 November	9.00am-5.00pm	Spring	Stawell OS Spring Show	Halls Gap Hall	
4 November	9.00am-3.30pm			Main Street, Halls Gap	
8-9 November	9.00am-5.00pm		Maribyrnong OS Sarc Festival of Victoria	Maribyrnong Community Centre Randall Street, Maribyrnong	
8 November	10.00am-5.00pm	Spring	Yarra Valley OS Sarcophilus Show	B&T Ferns and Orchids	03 9725 7513
9 November	10.00am-4.00pm			38 Wiseman Road, Silvan	

South Australia

29 June	Shopping Centre Hours	Winter	Gawler Districts Orchid Club Winter Show	St Agnes Shopping Centre	08 8255 7348
5 July				North East Road, St Agnes	
4 July	12noon-5.00pm	Winter	Murray Bridge & Districts OC Winter Show	Town Hall	08 8532 5607
5-6 July	10.00am-4.00pm			Bridge Street, Murray Bridge	
11 July	10.00am-4.00pm	Winter	Port Augusta Orchid Club Winter Show	Garden Club Hall	08 8643 6016
12 July	10.00am-1.00pm			Elizabeth Terrace, Port Augusta	
12 July	12noon-5.00pm	Autumn	SA Orchidaceous Society Mid Year Show	Klemzig Band Hall	08 8356 9523
13 July	10.00am-4.00pm			7 Og Road, Klemzig	
13 July	11.00am-5.00pm	Winter	Cymbidium Orchid Club of SA Winter Show	Munno Para Shopping City	08 8294 5562
14-16 July	9.00am-5.30pm			600 Main North Road, Smithfield	
17 July	9.00am-9.00pm				
18-19 July	9.00am-5.30pm				
19-20 July	10am-4.00pm	Winter	Port Lincoln Orchid Club Winter Show	Port Lincoln Orchid Club Inc Mark Street, Port Lincoln	08 8682 8237
28 July	7.30pm	Winter	Mt Gambier & District OS Winter Show/Meeting	MG&DOS Clubroom, Reidy Park Centre O'Halloran Terrace, Mt Gambier	
10-16 August	Shopping Centre Hours	Winter	SA Orchidaceous Society Winter Show	Parabanks Shopping Centre Parabanks	08 8356 9523
23 August	9.00am-5.00pm	Autumn	Cymbidium Orchid Club of SA National Cymbidium Show	Noarlunga Leisure Centre	08 8294 5562
24 August	9.00am-4.00pm			David Witton Drive, Noarlunga Centre	
29-31 August	9.00am-4.00pm	Autumn	Port Pirie & Dist Orchid Club Autumn Show	Pirie United Pensioners Hall Cnr Gertrude & David Streets, Port Pirie	08 8636 2100
30 August	9.00am-5.00pm	Spring	Riverland Orchid Soc Riverland Orchid Spectacular	Berri Town Hall	08 8588 2722
31 August	9.00am-4.00pm			Berri	
31 August	11.00am-5.00pm	Spring	Cymbidium Orchid Club of SA Spring Show	Westfield West Lakes	08 8294 5562
1-3 September	9.00am-5.30pm			101 Lakes Boulevard, West Lakes	
4 September	9.00am-9.00pm				
5-6 September	9.00am-5.30pm				
17-21 September	10am-4.00pm	Spring	Port Lincoln Orchid Club Spring Show	Port Lincoln Orchid Club Inc Mark Street, Port Lincoln	08 8682 8237
19 September	12noon-5.00pm	Spring	Murray Bridge & Districts OC 23rd Spring Orchid Show	Town Hall	08 8532 5607
20-21 September	10.00am-4.00pm			Bridge Street, Murray Bridge	
21-27 September	Shopping Centre Hours	Spring	Gawler Districts Orchid Club Spring Show	Centro Hollywood Shopping Centre Cnr Winsor & Spains Roads, Salisbury Downs	08 8255 7348
21-27 September	Shopping Centre Hours	Spring	SA Orchidaceous Society Spring Show	Burnside Village Shopping Centre Burnside	08 8356 9523
22-26 September	8.00am-5.30pm	Spring	Mt Gambier & District OS Spring Show	Banner Hardware	
27 September	8.00am-12noon			Cnr Bay Road and Sturt Street, Mt Gambier	
26 September	10.00am-4.00pm	Spring	Port Augusta Orchid Club Spring Show	Garden Club Hall	08 8643 6016
27 September	10.00am-2.00pm			Elizabeth Terrace, Port Augusta	

SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS	CONTACT No.
Western Australia					
4-5 July	Shopping Centre Hours	Winter	Wanneroo OS Newpark Show	Newpark Shopping Centre Newpark	08 9405 8759
24-26 July	Shopping Centre Hours	Winter	Bunbury OS Winter Show	Bunbury Forum Shopping Centre Sanbridge Road, Bunbury	08 9797 18429
21-23 August	Shopping Centre Hours	Spring	Wanneroo OS Joondalup Show	Joondalup Shopping Centre Joondalup	08 9405 8759
11-13 September	Shopping Centre Hours	Spring	Bunbury OS Spring Show	Bunbury Forum Shopping Centre Sanbridge Road, Bunbury	08 9797 18429
13 September 14 September	10.00am-4.00pm 10.00am-3.00pm	Spring	Augusta & Districts OS Annual Show	Watershed Winery Cnr Darch Rd & Bussell Hwy, Margaret River	08 9757 2490
Tasmania					
17 July	from 7.30pm	Winter	Launceston OS Winter Show	Uniting Church Hall George Town Road, Newnham	03 6343 0804
3-5 October	10.00am-4.00pm	Spring	Launceston OS 2008 Spring Show	Glenara Lakes Hall Youngtown	03 6343 0804
3 October 4 October 5 October	2.00pm-5.30pm 9.00am-5.30pm 9.00am-4.30pm	Spring	Devonport Orchid Society Spring Show	Maidston Park Memorial Hall Spreyton	03 6428 3226
10 October 11 October 12 October	2.00pm-5.00pm 9.00am-5.00pm 9.00am-4.00pm	Spring	Burnie Orchid Society Spring Show	Braddon Hall Burnie Civic Centre, Burnie	
New Zealand					
6 July	1.30pm-3.30pm	Winter	Waikato Orchid Society Winter Show	Rotary Lounge – Hamilton Gardens Pavilion Cobham Drive, Hamilton	07 849 6092
12 July	10.00am-4.00pm	Winter	Hawkes Bay Orchid Society Winter Show	Clive Hall Main Road, Clive	06 877 7013
18-19 July 20 July	10.00am-5.00pm 10.00am-4.00pm	Winter	New Zealand Orchid Society Winter Show	Mt Albert Memorial Hall New North Road, Mt Albert, Auckland	+64 9 411 9383
16 August	9.00am-4.00pm	Winter	South Auckland Orchid Society Winter Show	Senior Citizens Hall East Street, Papakura	
22-24 August	9.00am-4.00pm	Spring	Auckland Orchid Club 25th Anniversary - Spring Show	Kelston Community Centre Great North Road, Glendene	09 412 2991
23-24 August	10.00am-4.00pm	Spring	Levin & Districts OC Levin Orchid Expo 25th Anniversary Spring Show	Levin Memorial Hall Cnr Queen & Chamberlain Streets, Levin	
19-20 September 21 September	10.00am-5.00pm 10.00am-4.00pm	Spring	New Zealand Orchid Society 60th Anniversary Spring Show	Mt Albert Memorial Hall New North Road, Mt Albert, Auckland	+64 9 411 9383
20-21 September	10.00am-4.00pm	Spring	Hawkes Bay Orchid Society Spring Show	Taradale Town Hall Cnr Lee & Meeanee Roads, Taradale	06 877 7013
26-27 September	12.30pm-5.00pm 10.00am-3.00pm	Spring	Waikato Orchid Society Spring Show	Hamilton Gardens Pavilion Cobham Drive, Hamilton	07 849 6092
27-28 September	9.00pm-4.00pm	Spring	Manawatu Orchid Society Spring Show	Community Leisure Centre 569 Fergusson St, Palmerston North	06 357 7496
4 October 5 October	10.00am-5.00pm 10.00am-4.00pm	Spring	Wairapa Orchid Circle Spring Show	Masterton Town Hall Masterton	06 378 2902
5 October 6 October	10.00am-4.30pm 9.00am-4.00pm	Spring	Canterbury Orchid Society Spring Show	Canterbury Horticultural Centre Riccaton Avenue, Christchurch	
11-12 October	10.00am-4.00pm	Spring	Wanganui Orchid Society Spring Show	Memorial Hall Queens Park, Wanganui	06 344 6080
1 November	10.00am-4.00pm	Spring	Hawkes Bay Orchid Society Sarcophilus Show	Taradale Town Hall Cnr Lee & Meeanee Roads, Taradale	06 877 7013



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Cymbidiums Australia

PRESENTED BY THE AUSTRALIAN CYMBIDIUM SOCIETY INC.

Editor's Report

Welcome to the June/July issue, the show season is almost upon us and winter is well and truly closing in, hopefully you are all seeing ample signs that the hard work and careful culture you gave your cymbidiums during spring, summer and autumn will soon be paying off.

Things change and some of you may notice that there is a change on this page with one less state cymbidium club listing their contact details in the right hand column. The Cymbidium Club of Australia (NSW) have decided not to renew their membership of the Australian Cymbidium Society at this time. With the CCA (NSW) having been one of the three foundation clubs of the ACS it is a pity that they will no longer be a part of the national organisation. Noe and I wish them well and thank all of the CCA (NSW) members who provided their time, expertise and knowledge through features and articles over the years.

For member clubs the busiest time of the year is really hotting up, for the Cymbidium Orchid Club of South Australia the National Cymbidium Show is now only a couple of months away. The show schedule appears in this issue for your information.

Also on the subject of information, Peter Hall from South Australia provides us with the names and meanings hidden behind common acronyms used by cymbidium growers, especially useful information for newer members and readers who probably feel like we are all talking another language at club meetings and in these pages.

Editors



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Email:

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Rob Smith



Carolyn Allen brings us a detailed follow up to her article last issue about OSCOV Cymbidiums of the Year with pictures of every years winners and also has a show report for us from the Yarra Valley Orchid Clubs Spring Show, surely the latest spring show in the country due to the cold winters at altitude in the Yarra Ranges. Mind, that doesn't stop their members growing some excellent cymbidiums. Carolyn also has a handy tip and an inventive use for a product which may appeal to those growers who mix their own potting mixes.

Please check the corrections included relating to the article on *Cym. Kelly's* Winter from our last issue.

Keith Harris tells us about a new annual prize class for cymbidiums, instituted by the CCA (NSW), which sees the best seedlings compete against the best non seedling plants seen in any year.

To wrap up this issue Gordon Giles adds to his previous observations about cymbidium judging with some history and some thoughts drawn from many years experience and Rob Smith adds some comments and clarifications regarding the ACS judging system. While this subject may be of little interest to some, the questions raised can have an impact on the cymbidiums we hobbyists end up growing in the future. After all, aren't many of the parents used to make the plants we currently grow, not past champions and award recipients?

Good luck, good health and good growing, hope to see you around the shows.

Your Editors

HOW TO JOIN A CYMBIDIUM CLUB IN YOUR STATE

CYMBIDIUM ORCHID CLUB OF SOUTH AUSTRALIA INC.

Meetings are held on the 4th Wednesday of each month (except December and January)
Auditorium open from 7.00 p.m. —

Beginners' Group commences 7.20 p.m.

Main Meeting commences 8.00 p.m.

Venue: Burnside Community Centre,
401 Greenhill Road, Tasmore, Adelaide, S.A.

For further details contact

Secretary, Jeanne Hall,

18 Coorilla Avenue, Glenelg North, S.A. 5045

Phone: (08) 8294 5562

President, Ray Brady,

Phone: (08) 8252 3812

THE CYMBIDIUM ORCHID CLUB OF WESTERN AUSTRALIA INC.

Meetings are held on the 3rd Monday of each month (except January and February)
Benching of plants commences 7.15 p.m.

Main Meeting commences 7.30 p.m.

Venue: Belmont Sports & Recreation Club,
Abernethy Road, Belmont, W.A.

For further details contact

Secretary, Sallyanne Bushe-Jones,

1105 Campersic Road,

Brigadoon WA 6069

Phone: (08) 9296 6203

President, Courtney Rogasch

Phone: 0407 049 717

THE CYMBIDIUM ORCHID SOCIETY OF VICTORIA INC.

Meetings are held on 2nd Tuesday of each month (except January)

Popular Vote commences 7.50 p.m. —

Main Meeting commences 8.00 p.m.

Venue: Mt. Waverley Youth Centre,

Millers Crescent, Mt. Waverley, Victoria.

For further details contact

Secretary, Jenifer Robertson,

54 Worthing Road, Devon Meadows,
Victoria 3977

Phone: (03) 5998 2226

President, Glenda Coutts,

Phone: (03) 9727 4849

CYMBIDIUM CLUB OF AUSTRALIA INC.

(The CCA is no longer affiliated with ACS)

Meetings are held on the 2nd Thursday of each month (except December, January and February)

Meetings commence 8.00 p.m.

Venue: Lakemba Chapter Remembrance Hall,
220 Lakemba Street, Lakemba, Sydney, N.S.W.

For further details contact

Secretary, Peter Moore,

10 Stephanie Street,

Padstow, N.S.W. 2211

Phone: (02) 9721 0572

President, Geoff LeMarne,

Phone: (02) 9449 9648

Web: www.ccanw.com.au



Cym. insigne.

Yarra Valley Orchid Club 2007 Spring Show

Text by Carolin Allen – photography by G. Coutts, K. West and David and Carolin Allen

Yarra Valley Orchid Club is another club that is situated on the very outer fringe of the city-country boundaries. Yarra Valley is a picturesque wine growing area and with Mt. Donna Buang and other snow fields just down the road it means this area gets very cold and it quite often snows. The orchids do it very hard up here, they also have very bad frosts, you have to grow your plants under cover and provide a bit of warmth.

It is 75km from our home in Langwarrin. We are members of the YVOS as we find that there members are amongst the friendliest in Victoria. Which makes the hour plus drive to there meetings and shows a pleasure.

The show always seems to happen on the hottest weekend in October. And this

year it was true to form 33 degrees (*very hot indeed for that time of the year in the valley*) everybody was suffering from the heat as well as some of the plants.

The show is held in the Public Hall in Seville on the Warbarton Hwy. The committee always set a theme for the show displays, this year it was sports. Well known orchid identity Clive Halls had a motor bike, helmet, boots and gloves etc in the Mt. Beenak display, with Ron and Jean Schleifert display featuring snow skiing equipment. Glenda Coutts' display featured fencing, swords and head gear, with Ron and Shirley Aumans' stand dedicated to cricket. Alan and Wendy Witnish are lawn bowls enthusiasts and their display was of course lawn bowls. All the theme displays add an interesting aspect for the

general public to view when they visit this show. Even an anti-sports theme caused some interesting comments.

We did not do a theme this year, as we were not sure if we would have enough plants to set up a display. We had an idea of Beijing Olympics but unfortunately did not have time to get our props ready. Despite this we had a very successful show taking out some major cymbidium prizes.

The show champions and awards

Champion Cymbidium of the Show Champion and Champion Intermediate Type went to *Cym. Richard Tauber 'Carolyn'* exhibited by Carolin and David Allen. This plant was also awarded an OSCOV/COSV HCC.

The Champion Large Flower was *Cym.*



Above: Single flower of *Cym. Richard Tauber 'Carolyn'*.

Right: *Cymbidium pumilum* 'Tan'





Left: *Cym.* Richard Tauber 'Carolyn'.

Right: *Cym.* Lemon Butter 'Tee Pee'.

Bottom right: *Cym.* Ruby Brook
'Premium Red'.

Below left: *Cym.* Richard
Tauber 'Carolyn'







Lemon Butter 'Tee Pee' exhibited by Carolin and David Allen and the Champion Miniature Flower, *Cym. Plush Canyon* 'Beenak' was exhibited by Glenda Coutts.

The Best Cymbidium Species was *Cym. insigne* 'Pink' exhibited by Carolin and David Allen.

There were five stands of cymbidiums: – Carolin and David Allen, Henk and

Top left: *Cym. Tuffet*.

Below left: Display by G. Coutts.

Below centre: Display by K. West.



Marg Morren, Ken West, Alan and Wendy Witnish, with Stephen and Meryl Early's stand consisting solely of species cymbidiums.

The plant sales at this show are just unbelievable! Well done folks for another excellent show put on by the Yarra Valley Orchid Society.

Carolyn Allen

Top right: Display by R. Schliefert.

Below right: Display by Carolyn and David Allen.



National Cymbidium Show 2008

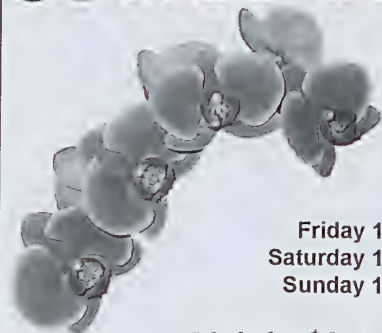
With over 85 colour and size classes for exhibitors to nominate their plants and cut stems in and 6 different display classes available, both for theme/artistic and general types, along with a range of champion classes and prizes for both cut stem and flowering plants, this years National Cymbidium Show schedule caters for cymbidiums and exhibitors of all types. State club displays provide exhibitors the opportunity to participate even if they only have a few plants or cut stems to exhibit, while individual displays across 3 size classes allow growers to tailor their own displays to the plants or stems they have available.

Continuing the tradition established over recent years, Leon Van Rijn and Fleurijn Orchids – Holland will not only be the shows naming rights sponsors, but will also be donating prize monies to their own special class for commercial cut flower type cymbidiums. ■

National Show Schedule 2008

<i>Champion</i>	<i>Sponsor</i>	<i>Prize</i>
Champion Plant in Show	Australian Cymbidium Society	Trophy + \$200
Champion Large Standard	Fleurijn Orchids	\$200
Champion Small Standard	City of Onkaparinga	\$200
Champion Intermediate	Kimerley Orchids	\$200
Champion Miniature	Ezi Grow Orchids - Kevin Butler	\$200
Champion Specimen	City of Onkaparinga	\$200
Champion Novelty	Lifestyle Botanics	\$200
Champion Vintage	Cymbidium Orchid Club of WA	\$200
Champion Species	Kevin Western	\$200
Champion Cut Stem in Show	Australian Cymbidium Society	Trophy + \$200
Champion Seedling Large Standard	Sims Orchids	\$200
Champion Seedling Small Standard	Valley Orchids	\$200
Champion Seedling Intermediate	David Wain	\$200
Champion Seedling Miniature	Fleurijn Orchids	\$200
Champion Display	Australian Cymbidium Society	Trophy + \$200
By a State Club		
John Mata Challenge	Australian Cymbidium Society	\$200
Most Eye Catching Orchid		
(Dean Roesler Memorial Trophy)	Australian Cymbidium Society	Trophy + \$200

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- The Orchid Tray Company • Tinonee Orchid Nursery • Woolf Orchidculture.

For more information: Show Marshal Garrie Bromley 02 9452 3203

Corrections from last issue

Our apologies to the owners and hybridisers of the following orchids;

The correct name of the Kimberley Orchids owned and hybridised Cym. Julie Hawkes featured is 'Alanis' not Atlantis as printed.

Cym. Kimberley Winter 'Malibu' is actually Cym. Kimberley Valley 'Malibu'.

Cym. Kalahari Pepper was incorrectly credited as a Bryants Orchids hybrid when in fact it was actually hybridised by Andy Tran.

Once again our apologies, if you have listed any of these cymbidiums on your wish list please make note of these corrections. (We believe at least the two from Kimberley Orchids are available as mericlones.) ■

Your editors

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1998 Cym. Freeling 'Green Ice'

Why was the Cymbidium Orchid Society of Victoria formed?

by Carolin Allen – pictures from the OSCOV awards library

The Cymbidium Orchid Society of Victoria was formed back in 1991, by a group of Cymbidium enthusiasts, to promote the understanding of the development, propagation, and cultivation of the cymbidium orchid. Our aims were to conduct shows, exhibitions or displays to promote cymbidiums and to affiliate with other groups to further these aims. We wanted to provide a place for our members to meet and share information in a friendly, relaxed and sociable atmosphere. We wanted members to be able to purchase up-to-date and desirable plants at a reasonable cost. For members to enjoy the benefits of access to all manners of cultural experiences and information, with the emphasis being to learn more about our favourite plant. To put it in simple terms to give cymbidiums a better go in the orchid

world.

Before the formation of the Cymbidium Society cymbidiums were NOT taken seriously either by local general Orchid clubs or at a wider level and were often seen as fillers at club meetings and shows. The comments you would hear at the multi-genera clubs were "they're only just cymbidiums" but take out these cymbidiums and the shows would have been very small displays.

SA and NSW already had formed cymbidium clubs. A group of Victorian cymbidium enthusiasts got together at Terry Poulton's place on May 18th 1991, a steering committee was formed and the COSV was born. It was agreed that foundation members would pay \$100 as a membership fee to start the club on a good financial basis. There were 45 foundation mem-

bers who signed up for this membership and these people received certificates at our first meeting, many are still loyal members today.

The first COSV social meeting was held 6 weeks later, Thursday 27th June 1991 at the Schools Nursery, in Mount Waverley with 106 people attending. The following people were elected to the first committee; Terry Poulton – President, Ern Kettle and John McMillan – Vice Presidents, Kevin Brown – Secretary, John Hedger – Treasurer, with Syd Monkhouse being the first guest speaker. The club now meets on the second Tuesday of the month (except in December & January) at the Mount Waverley Community Centre.

We did not have a judging panel to start with, but there were 3 sections – Open, Intermediate & Novice for members to



1997 *Cym. Gentle Touch 'Bon Bon'*

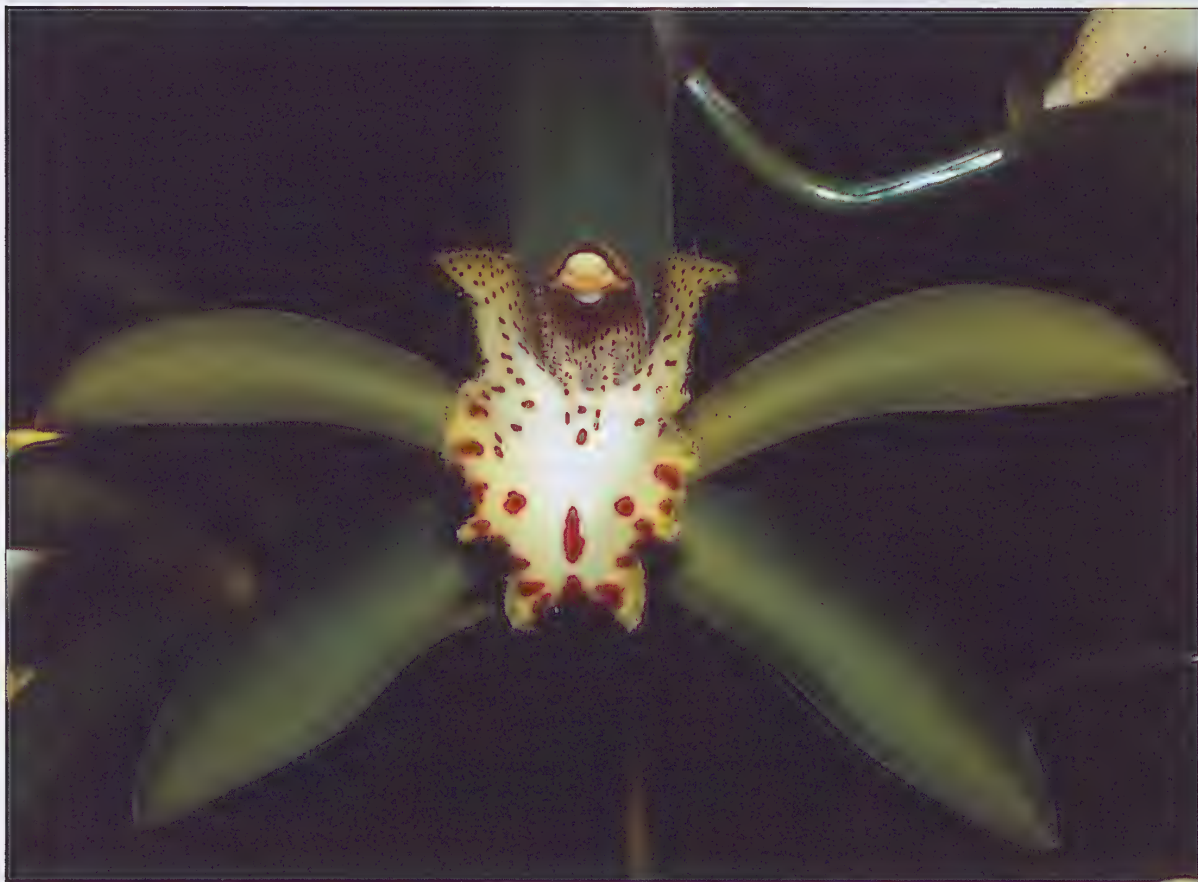
display their plants in, with a popular vote taken to select the winner of each section.

It was not long before our members wanted their plants judged and they wanted cymbidium specialists to judge them! As a result the COSV judging panel came into being with a judging handbook especially designed for cymbidiums. We started judging the plants, with a forth section added, a seedling section to promote the growing of new seedlings our plants of the future.

With promotion of cymbidiums at local clubs by COSV members, the humble cymbidium started to become recognised as the significant orchid that it is and not just space fillers at meetings and shows.

When OSCOV (Orchid Societies Council of Victoria) started their Orchid of the year Awards in 1997, the success of COSV members soon became apparent with all the cymbidium of the year awards won by COSV members bar one. The very first OSCOV Cymbidium of the year ironically went to a South Australian grower, Murray Weston through the OSCOV Melbourne Orchid Spectacular. However Murray was and still is a staunch member

2000 *Cym. hookerianum*





of the Cymbidium Orchid Club of South Australia.

The following list is the OSCOV CYMBIDIUM OF THE YEAR:-

2007: *Cym. Kimberley Splash* 'TeePee'

2006: *Cym. Olive Street* 'Dinh'

2005: *Cym. Sarah Jean* 'Jennifer' – Paul Latina

2004: *Cym. Kimberley Winter* 'Chartreuse' – Phil Grech

2003: *Cym. Kimberley Winter* 'Sunbound' – Otto Wende

2002: *Cym. Kimberley Winter* 'Tee Pee' – Terry Poulton

2001: *Cym. One Tree Hill* 'Beenak' – Terry Poulton

2000: *Cym. hookerianum* 'Druion' – N & F Allison

1999: *Cym. erythrostylum* 'Magnificum' – John Hedger

1998: *Cym. Freeling* 'Green Ice' – A Murphy & K Moss

1997: *Cym. Gentle Touch* 'Bon Bon' – M. Weston (Cymbidium Orchid Club of South Australia)

All of these people were and still are members of the COSV & COCSA and

1999 *Cym. erythrostylum* 'Magnificum'

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Left: 2001
Cym. One Tree Hill
'Beenak'

Below: 2006
Cym. Olive Street




Right: 2007
Cym. Kimberley
Splash 'Tee Pee'

Below left: 2002
Cym. Kimberley
Winter 'Tee Pee'

Below right: 2003
Cym. Kimberley
Winter 'Sunbound'



COSV is a strong and vibrant club with almost 200 current memberships. 

Carolyn Allen
18 Wootten Crescent, Langwarrin VIC

Right: 2005 Cym. Sarah Jean 'Jennifer'

Below: 2004 Cym. Kimberley Winter
'Chartreuse'





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| D. Cym. Darch Wonder 'Ruby Cheeky' – Red | K. Cym. Ruby Pendant 'Ruby' – Red |
| E. Cym. Dorothy Stockstill 'Forgotten Fruits' – Red | L. Cym. Ruby Pendant 'Twist N Turn' – Red |
| F. Cym. Joy Raye 'Ahoy' – Pink | M. Cym. Vogel's Pass 'Pink Passion' – Pink |
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AOR159



A view of Seong Tay's nursery early in the flowering season.

Innovation for the Cymbidium Club of Australia Inc

by Keith Harris

Over the past number of years our club members have concentrated mainly on the growing and showing of Cymbidium seedlings. The popularity of this class is evident by George Serhan's FCC orchid *Cym. Serhan's Passion* 'Marion' and Terry Poulton's orchid of the year, *Cym. Kimberley Splash* 'Tee Pee'. Both these magnificent orchids have been bred by Greg Bryant. Many other awarded plants have been bred by hybridists in all states of Australia maintaining the quality of all cymbidiums for future shows.

The Cymbidium Club of Australia is

extremely fortunate to have the support of Seong Tay, who has over many years sponsored our club seedling competition culminating in an annual winner receiving the perpetual trophy and a prize of \$500.00.

While intense interest of club members in the seedling section will continue the committee determined that the open section needed an injection of enthusiasm and competition. To that end it was decided the champion seedling will maintain its status with prize money and trophy as selected by the judging panel and then will compete against the open section for champion

orchid of the year. In honour of the effort and support given to our club by Seong Tay it was agreed that the category will be named 'The Tay Cymbidium Orchid of the Year'. Seong has grown thousands of orchids for the pot plant, cut stem and showbench trade over many years and has a great passion for seedlings. In support of this prestigious award it will attract a prize of \$500.00 together with a perpetual trophy and a replica for the winner's mantelpiece.

After learning of the club's decision to honour Seong Tay with this award he generously offered to sponsor the champion

orchid which bears his name.

Plants eligible to compete will be drawn from each months champion seedling and open division together with cymbidiums from club show held at Swanee Nursery Carlingford and the Dural Orchid Extravaganza. Digital photos will be taken from all these showings for a decision to

be made. The final result will be declared at the November meeting with the presentation of the seedling of the year and the Grand Champion Tay Orchid of the Year.

With all this generously on offer, it is anticipated that all members will support this initiative of promoting our cymbidium seedling and open section to enhance our

shows, club meetings and to enable members to enjoy growing their cymbidiums and to ensure the continued success of the Cymbidium Club of Australia. ■

*Keith Harris
c/- CCA*

10 Stephanie St. Padstow NSW 2211



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Abbreviations and acronyms

by Peter Hall

This article, *Abbreviations and acronyms*, was in fact requested by one of our new members at a club meeting in November 2007. During the course of the evening, Ray Brady introduced our speaker, Kevin Butler and told the gathering that Kevin was the new president of the ACS and also probably used more abbreviations during the evening. The new member said to me that she did not know what Ray was referring to.

I remembered that when Jeanne and I joined the Cymbidium Orchid Club of South Australia as new members (4 years ago) we found it difficult to understand what people were on about, they all talked acronyms.

I have listed some of the relevant acronyms and abbreviations below and on the following pages and have also attempted to explain some of the commonly used acronyms and abbreviations pertaining to fertiliser *eg* NPK, pH, EC, *etc* and the word *chelate*, *sequesters*, *complex* and *ligand* as well as the acronyms/abbreviations used when judging orchids.

Sometimes we forget that it's difficult for new members to follow what's going on at the meetings. We were all in the same place at the beginning so new members, please feel free to ask someone, they'll be happy to help!

AOR	Australian Orchid Review
COCSA	Cymbidium Orchid Club of South Australia Inc
COCWA	Cymbidium Orchid Club of Western Australia Inc
COSV	Cymbidium Orchid Society of Victoria
CCA	Cymbidium Club of Australia—New South Wales
ACS	Australian Cymbidium Society (National Body)

EC	Electrical Conductivity
pH	Per hydron, or per hydrogen, also power of the hydrogen
PPM	Parts per million by volume
NPK	(N) Nitrogen—(P) phosphorus—(K) Potassium
Nitrogen	As nitrate form As ammonium form As urea form
Phosphorus	As ammonium phosphate As mono potassium phosphate
Potassium	As potassium nitrate As mono potassium phosphate

(N)	Nitrogen
(P)	Phosphorus
(K)	Potassium
(S)	Sulphur
(Mg)	Magnesium
(Fe)	Iron
(Cu)	Copper
(Zn)	Zinc
(Mn)	Manganese
(Ca)	Calcium
(Mo)	Molybdenum
(B)	Boron
(Na)	Sodium
(Cl)	Chloride
(C)	Carbon

pH (per hydron or per hydrogen, also power of the hydrogen).

The concept of pH was introduced by a Danish chemist SPL Sorensen in 1909.

A pH meter measures the acidity or alkalinity of a solution on a scale from zero to 14. This scale is not a linear scale, but an exponential scale. This means that the difference between pH of six and a pH of seven is huge.

If the pH is too high or too low the plants' roots are unable to take up nutrients in the correct proportions. If the pH is wrong then half the recommended nutrients will cause over fertilisation.

Aqueous solutions at 23°C with a pH less than seven are considered acidic. These with a pH greater than seven are considered basic (alkaline). A pH level of seven 7.0 is defined as neutral at 25°C.

The pH scale is logarithmic, not linear (exponential scale); it does not start at zero. The most acidic liquids have a pH as low as -5. The most alkaline has a pH of 14.

EC—An EC meter measures the electrical conductivity of the water. Clean water *eg* rain or demineralised water has a low EC. When nutrients or PH adjusters are added to the water, the EC will increase. The EC meter is a necessary tool so that we can deliver the correct amount of nutrients to our plants and the pH meter to measure the correct pH level.

CHELATE (ke'lat') – the adjective chelate derived from the great claw or chele (Greek) of the lobster or other crustaceans, is suggested for the calliper like groups which function as two associating units and fasten to the central atom so as to produce heterocyclic rings.

The term *chelate* was first applied in 1920 by Sir Gilbert T Morgan and HDK Drew.

CHELATION (from Greek chele, meaning claw) – is the binding or complexation of a B1 or multidentate ligand. These ligands, which are of ten organic compounds, are called chelants, chelators, chelating agents or sequestering agent. The ligand forms a chelate complex with the substrate.

Relative to the aqua complexes, the increased stability of a chelated complex, is called the chelate effect. Because chelating agents bind to metals through more than one coordination site, such ligands bind more tenaciously than unidentate ligands (like water). If a chelate were replaced by several monodentate ligands (such as water or ammonia), the total number of molecules would decrease, whereas if several monodentate ligands were replaced by a chelate, the number of free molecules increases. The effect is entropic.

Verb 1 Chelate
Form a chelate, in chemistry
Form, constitute, make—to compose or represent: 'This wall forms a background of the stage setting'; 'The branches made a roof'; 'This makes a fine introduction'.
Adj 1 Chelate
Relating to or characterised by chelation—chelated
Adj 2 Chelate
Having or resembling chelate or claws
Noun Chelate
A chemical compound in the form of heterocyclic ring, containing a metal ion attached by coordinate bonds to at least two non metal ions.
Verb
Che.lat.ed, che.lat.ing, che.lates
To combine (a metal ion) with a chemical compound to form a ring.

CHELATE—a chelate is a type of *coordination compound* in which a single metallic ion is attached by coordinate covalent bonds to a molecule or an ion called a ligand. The Greek word *chela*, 'crabs claw', clearly describes the appearance of many kinds of chelates, in which the ligands surrounds the central atom in a way that can be compared to the grasping of food by a crab's claw.

LIGAND—(LIGARE [Latin], to bind). Virtually every molecule and every ion can serve as a ligand for (or 'coordinate to') metals.

A ligand is an atom, ion or molecule that generally donates one or more of its *electrons* through a *coordinate covalent bond*, or shares its electrons through a *covalent bond* with one or more central atoms or ions (these ligands act as a lewis base).

Ligand: a group, ion, or molecule coordinated to a central atom or molecule in a complex.

COMPLEX—A complex system is a

system composed of interconnected parts that as a whole exhibit one or more properties.

CHELATED MINERALS

Boron Chelate	Calcium Chelate
Cromium Chelate	Copper Chelate
Iron Chelate	Lithium Chelate
Magnesium Chelate	Molybdenum Chelate
Phosphorous Chelate	Potassium Chelate
Selenium Chelate	Silicon Chelate
Vanadium Chelate	Zinc Chelate

SEQUESTER CHELATES

Sequester V.intr.chemistry to undergo sequestration.

Sequester—to undergo sequestration by forming a stable compound with an ion; 'the cations were sequestered'

CHEMICAL SCIENCE, CHEMISTRY—The science of matter, the branch of the natural sciences dealing with the composition of substances and their properties and reactions.

CHANGE—undergo a change; become different in essence; losing ones' or its original nature.

SEQUESTER—to hold (as a metallic ion in solution usually by inclusion in an appropriate coordination complex.

Some growers use extra chelated minerals singularly and at a higher rate than the multi-mineral fertilisers—mainly *iron chelate; magnesium and calcium*.

Chelated minerals when dissolved deliver the minerals that are more easily absorbed by the plants root system and with some plants to the leaf system (folia) as well.

Sequester chelators—deliver more nutrients than previously possible due to their molecular size—it increases chelation speed.

RELATIONSHIP BETWEEN EC AND PPM

Electrical Current (EC) units—parts per million (PPM) mg/l (milligrams per litre).

750 EC units is approximately 425 PPM at 30°C, 475 PPM @ 25°C, 550 PPM @ 20°C and 625 PPM @ 15°C.

JUDGING ACRONYMS / ABBREVIATIONS

FCC/GA	First class certificate / gold award
AM/SA	Award of merit / silver award
HCC/BA	Highly commended certificate / bronze award
AD/JC	Award of distinction / judges commendation
ACE	Award of cultural excellence
ABM/AQ	Award of breeders merit / award of quality
CBM/CHM	Certificate of botanical merit / horticultural merit

OTHER SOCIETIES ACRONYMS / ABBREVIATIONS

AOC	Australian Orchid Council
AOS	American Orchid Society
CSA	Cymbidium Society of America
RHS	Royal Horticultural Society
OCNZ	Orchid Council of New Zealand
NZOS	New Zealand Orchid Society
JOGA	Japan Orchid Growers' Assoc.
OSCOV	Orchid Societies Council of Vic.
SAROC	South Australian Regional Orchid Council Inc

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The TumbleWeed with its lid off showing the taped over breathing holes necessary for compost making but not for making potting mix.

We have always used a mix of ingredients to make up our cymbidium potting medium. We currently use 60% composted pine bark, 30% coco fibre and 10% coarse perlite. David has used an old bath tub or wheel barrow to mix these concoctions in the past. He now has a new toy in which he mixes his potting media, it is a garden mulch mixer called a TumbleWeed Mulch Mixer.

We got the idea from Rob and Noe Smith. We were talking about mixing potting mixes at Rob and Noe's place one night last year, during one of our many Webber BBQ nights. At the time David had injured his back and was finding it difficult mixing up our potting mix.

Rob took David out to his work shed and showed him what he uses a TumbleWeed Mulch Mixer. To turn it into a good mixer, you just tape over the air holes in the lids on both ends.

David put one on his Santa list, and he got one. It is great. We used heavy duty gaffer tape to stick over the air holes. He loads his bark, Coco fibre, perlite and Canunda Shells and anything else he wants to add in at the time and starts turning it around. We can now make up a large batch in a very short time and store it in a couple of wheelie bins for use when we need it. They cost around \$200 and I found ours at Mitre 10. No more mixing in the wheel barrow using a shovel and no strain on his back.

While the initial price might sound expensive they are good value, Rob and Noe tell me they have been using theirs since 1985, almost 23 years and it is still in perfect working condition! Rob estimates theirs has averaged about 80 or 90 loads of potting mix a year since they got it. The

Mixing your potting media

by Carolin Allen

TumbleWeeds' capacity is about 40 gallons, but it seems to work best as a mixer filled to about half way, or a little more. A 25 litre bag of bark, about the same amount of dehydrated coco peat and a bucket or two of dolomite, canunda shell or whatever fills it to around half way. Tip the ingredients in, close the lid and turn it over eight or ten times and the job is done. If your ingredients are a little dry, tip a litre or two of water in before the lid goes on and then rotate and your mix should come out evenly damp. If not damp enough add a little more water and repeat the process. Around 50 litres of potting mix can be mixed in a minute or two with no shovelling, no repeated bending and no mess.

If you plan on using the made up mix fairly soon after making it you can leave it in the TumbleWeed, just don't fasten down the lid or mould can grow on the damp mix. Leave the lid on but slightly cocked at one side (like a partly covered simmering pot) and the mix won't dry out too much, but shouldn't grow mould either. It will be fine that way for at least a couple of weeks if the unit is kept under shade, or in a shed, it will have dried out a little but it is easily re wetted by adding a bit more water and tumbling it a few more times.

To remove the mix from the TumbleWeed simply place a large bowl or similar on the ground and tip the thing up with the lid off. Tilt it back to stop the flow when you have poured out enough and



Ours is sitting on a home made stand to allow large containers to fit under when emptying it.

return it to upright. The process is so quick you don't need to make up and bag loads of mix if you don't want to, it can be made as required if your ingredients are ready. Rob and Noe leave their TumbleWeed sitting on the ground, but we have placed ours on a stand to increase the distance from the open end to the ground when it is being emptied to allow larger containers to fit under it.

Carolin Allen

18 Wootten Crescent, Langwarrin VIC



Make sure there is enough space for the drum to turn and combining the ingredients only takes seconds once they are in the drum.

More thoughts on judging

by Gordon Giles

I fear that my article on staking of inflorescences of orchids has been misunderstood. I realise that age and experience do not count anymore in the modern world, so I will try to prove that I know what I am talking about by using facts and logic.

The rules that apply to judging orchids were not laid down by the AOC. The AOC adopted and in some cases modified the rules that existed when it came into being. I was there and I know this to be true.

There were these simple rules that applied to all genera, such as the flower to be circular in outline and slightly concave. The inflorescence could be tied up to the bottom flower, or in the case of a single flowered genus, to the bottom of the ovary etc.

It was accepted that manipulation was going to take place. There had been attempts to stop it, but as long as you didn't use cotton wool (no tissues were around then), which left incriminating evidence, it was not possible to police.

In reality once a plant is grown in an artificial environment, manipulation had started. The decision was 'forget it'.

The AOC added some fancy words and numbers, but other than that did little to alter what were sensible rules. Indeed then, as today, it would appear that apart from registering awards the AOC had no great influence on the activities of most orchid societies.

Actually the whole question of awards is an interesting one. I was there when my father, Leo Giles, along with a group of orchid enthusiasts, decided to copy the Royal Horticultural Society and incorporate an award system into the Australian orchid growing world.

The RHS had granted awards to outstanding orchids for a long time. They kept records of these and before a plant was judged reference was made to previous awards. The records at that time were actual paintings that were exact replicas of the flower. At the time my father became involved these were painted by a Mrs. Humphries. Indeed my father had her paint two awarded plants: a *Cattleya* 'Bow Bells' and *Cattleya* 'Bob Betts'. He forwarded her slides of the flowers, and indicated the exact size. When the paintings arrived they were almost identical to the flowers they represented.

The idea was to recognise and encourage hybridists.

The RHS granted awards to plants other than orchids. Presumably different people were involved. The Shasta daisy 'Easter

Read' was granted an FCC. It was the first double Shasta daisy.

The local system worked for a while. It started from a low point. I believe a *Cymbidium* *Euterpe* 'Churchill' was the first plant to receive an award. It was an average flower but with an unusual colour (for that time). The system worked originally because there was constant improvement. However when the advances started to become less obvious the problems started.

Systems of appreciation, then points, then appreciation were tried. The rules were so difficult to understand that awards quickly became more like rewards. Growers knew when and where to take their plants for the best results.

To those who choose to argue with the above consider the following: When it comes to judging the Champion of show, it is accepted that competing plants have to be put side by side so a fair decision can be made. I have no problem with this. However these same people, who cannot look at a plant, walk across the room to the next plant and make a decision, then will look at a plant and say 'this one is better or whatever than the one they saw last month, or last year or more'. Logically this is nonsense. Till such time as there are true to life copies of previous awards of plants of the genus in question, available at award judging, the results are open to error. To make this possible, and have them available to all judges is not really very difficult in this day and age. It just takes a little initiative and effort. This would be a good project for the AOC. It would prove that other than just registering awards, there is a place for their organisation.

Now the Cymbidium Club of NSW is active. They have printed a booklet with their requirements for exhibition flowers. There are many sketches indicating both virtues and faults. These comply with world recognised standards and are helpful to anyone wanting to learn the good and bad points of a flower. Exact copies in book form would be better; maybe they have this in mind.

The Cymbidium Club NSW has not formed its own judging panel for what would appear to be a very good reason. At their annual show they have a section for other genera. This adds to the variety of the show and has proved to be very popular with the viewing public. They select the judges they require and approach them personally to see if they will participate. In the 2007 show there were judges from

Victoria, South Australia and NSW. There was the usual discussion during the judging, but a unanimous verdict was quickly reached in each division.

The show was apparently a huge success and this in spite of an extreme frost that damaged a lot of plants. We recorded -5 degrees at the nursery (in Dural), and for the first time in 40 years had frost damage. The very large hall the show as held in was full of plants in flower. The oohs and aahs of the public as they walked in, was proof indeed that this was one of the finest displays of orchids seen in Sydney in a long time. I must add here I am not a member of the Cymbidium Club of NSW.

In his recent article Rob Smith says he is keen to see a variation in the type of plant and flowers that are exhibited. I think this is a good idea, and it is the prerogative of any club to make classes for any style of plant or flower that they see fit. However you cannot alter the standard of perfection as recognised worldwide. This attempt to overlook or bypass perfection seems to be catching. As regards his opinion that some cymbidiums that have been awarded, but then fail to perform for some people, there is a reason. It is mostly climatic.

There are a number of plants that thrive in NSW but will not do well say in Victoria or South Australia. Indeed there are plants that do well very close to the coast and further north, but don't do well in the western areas of Sydney. In the latter case I am fairly sure that it is temperature related.

Regarding very floriferous plants, there are a number of nurseries that aim at the so called pot plant market, (we call what we do, 'upmarket indoor decoration'), and one of the requirements is a lot of flowers for the size of the plant, and considerable progress is being made in this area. It

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should also be noted that colour is very important. Great progress is being made here as well. Still it must be remembered that cymbidiums take about six years to flower and be proved from the time of pollination.

It is through breeding that the spike habit aspect will be fixed. We are already producing clones that do not require tying above the bottom flower to produce a vertical spike. It should be remembered that hybridists took a diploid Lunagrad 'Elanora', which had a horizontal spike, converted it to a tetraploid, then to 'Cronulla' with spikes at 45 degrees, then to 'Khan Flame' with a vertical spike. The spike habit was fixed in two generations. If the clubs that Rob talks about have ideas for a different style of flower or plant, these ideas must be put down in writing. Then the hybridists will know what they are aiming for. It is no good waiting for something to turn up and then make up the rules. That does not make sense. The popularity of cymbidiums seems to be growing every year.

While we may see things a little differently from one another, this is a good thing as we all strive to prove that our ideas are the right ones.

Gordon Giles

Keith Wallace Pty Ltd

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Editors Note: Rob Smith has added the following comments relating to Gordon's article.

I heartily agree with many of Gordon's comments about the problems of award judging as expressed here and in his previous article on the subject and if any of Gordon's, my, or the comments and views of others, promote discussion then we will have achieved something. The following is written by way of clarification of some of the points Gordon refers to above.

As Gordon states, he is not a member of the Cymbidium Club of Australia (NSW) and as

a result may be unaware that at various times over the past decade the club had looked at forming its own judging panel, but for various reasons had never gotten it off the ground. One of those reasons was probably not the admission of other genera to its shows, as that is a recent initiative dating back for only their last two annual shows. The CCA initiative to provide guidelines for flower form to assist judges was a great idea, in fact the ACS liked it so much they unashamedly used the idea and took it a step further in their own judging handbook, which now includes full colour photographs of recent bench mark awarded flowers and plants for each size class and type.

On the subject of altering worldwide standards of perfection, that is certainly not the aim of the judging guidelines of the Australian Cymbidium Society. What the ACS is about, as I understand it, is to attempt to better recognise all types of cymbidiums, but not to ignore the established qualities of floral perfection. (Of course we need to bare in mind that those qualities are ever changing. What was considered a flower close to perfection within its genera, as people could imagine it say 30 years ago, would certainly not measure up to today's standards.) Those world wide standards aren't so standard either, if we take a close look at them. Cymbidiums awarded in Japan wouldn't in most cases get a serious look from our judges here and some cymbidiums awarded by the RHS in the UK haven't been awarded in Australia either. Flowers such as *Cym. Icho* Tower 'Trinity' which have been awarded in both the UK and the USA don't rate with judges here, is this just because the flowers have pointy petals and sepals? For some reason judges here, (particularly AOC judges) have a problem with pointy petals and sepals, no matter how full formed or round the flowers are, yet no one can point to the rule that penalises pointy petals and sepals.

Judging systems all over the world operate with differing philosophies, the American Orchid Society takes account of parentage and breeding, asking its judges to picture what can reasonably be expected given the parentage of a crossing. That is why they can and do give quality awards to flowers most of our judges would not consider for award. The American Cymbidium Society adopts a system based on closeness to theoretical perfection. The RHS compares a flower to its parents and looks for an improvement over both in determining whether an award should be given. Broadly speaking it could be said that the ACS borrows a little from all systems in an attempt to best recognise advancements in cymbidiums of ALL types, not just show bench types. The aim of the ACS is not to award pot plants while ignoring show types, but it will consider the qualities of floriferousness as a bonus alongside flower form and fullness.

Gordon's point that some awarded cymbidiums fail to perform due to climatic factors

is true, but there have also been cases of orchids being awarded that are very difficult for anyone, anywhere, to grow and flower reliably. I could name at least two cymbidiums awarded in recent years that are now rarely if ever seen benched despite many hundreds of mericlones being sold, they were just too hard to grow and flower reliably, in any state, even for experienced show growers. Does that mean that those plants should not have been awarded? Probably no, the judges judged what they saw on the day. My point was that if we concentrate on flower form only, or too heavily, we do a disservice to the development of better cymbidiums. It's not about the bypassing of standards, it's about wanting it all and with the genetic material available today, having it all is a realistic possibility in cymbidiums. As Gordon rightly points out, problems such as weak spikes, poor flower counts etcetera, are being fixed and these things need to be recognised, BUT they also need to be rewarded!

I think that at the end of the day there are many cymbidium enthusiasts who see that we have some problems in how cymbidiums are judged, (and probably always will have) whether we all agree on every point is irrelevant, the important thing is that it is being discussed and hopefully discussion leads to change for the better.

Rob Smith

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August 23-24 –
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August 23-24 –
ANOS (Qld) 6th Australasian
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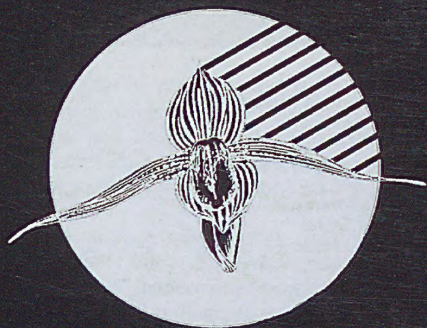
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